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1987 Census of Manufactures

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SUBJECT SERIES

General Summary

Industry, Product Class, and
Geographic Area Statistics



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The overall planning and review of the census operations were performed by the staff of the Office of the Assistant Director for Economic and Agriculture Censuses.

This report was prepared in the Industry Division. **John Govoni**, Assistant Chief for Census/ASM Programs, was responsible for the overall planning, management, and coordination of the census of manufactures. Planning and implementation were under the direction of **Bruce Goldhirsch**, Chief, Special Reports Branch, with primary data analysis responsibilities performed by **Joyce Pomeroy**.

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If you have any questions concerning the statistics in this report, call (301) 763-1503.

1987

Census of Manufactures

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Geographic Area Statistics

Issued March 1991



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INTRODUCTION

I. General Background

1. PURPOSE AND USES OF THE ECONOMIC CENSUSES

The economic censuses are the major source of facts about the structure and functioning of the Nation's economy. They provide essential information for government, business, industry, and the general public.

Economic censuses furnish an important part of the framework for such composite measures as the gross national product, input-output measures, production and price indexes, and other statistical series that measure short-term changes in economic conditions.

Policy-making agencies of the Federal Government use the data, especially in monitoring economic activity and providing assistance to business.

State and local Governments use the data to assess business activities and tax bases within their jurisdictions and to develop programs to attract business.

Trade associations study trends in their own and competing industries, and keep their members informed of market changes.

Individual businesses use the data to locate potential markets and to analyze their own production and sales performance relative to industry or area averages.

2. AUTHORITY AND SCOPE

Title 13 of the United States Code (sections 131, 191, and 224) directs the Census Bureau to take the economic censuses every 5 years, covering years ending in 2 and 7. The 1987 Economic Censuses consist of the

Census of Retail Trade
Census of Wholesale Trade
Census of Service Industries
Census of Transportation
Census of Manufactures
Census of Mineral Industries
Census of Construction Industries

Special programs also cover enterprise statistics and minority-owned and women-owned businesses. (The 1987 Census of Agriculture and 1987 Census of Governments are conducted separately.) The next economic censuses are scheduled to be taken in 1993 covering the year 1992.

3. AVAILABILITY OF THE DATA

The results of each of the economic censuses are available in printed reports, for sale by the U.S. Government Printing Office, and on microfiche, computer tape, compact discs with read-only memory, and flexible diskettes, for sale by the Census Bureau. Order forms for all types of products are available on request from Customer Services, Census Bureau, Washington, DC 20233. A more complete description of publications being issued from this census is on the inside back cover of this document.

Census facts are also widely disseminated by trade associations, business journals, and newspapers. Volumes containing census statistics are available in most major public and college libraries. Finally, State Data Centers in every State and Business and Industry Data Centers in many States also supply economic census statistics.

4. WHAT'S NEW IN 1987

Several changes have taken place for the 1987 censuses. Data will be reported on the basis of the newly revised Standard Industrial Classification (SIC) system with selected reports including "bridge tables," linking the old and new classification systems. A new set of metropolitan areas has been adopted, and more detailed information will be available for businesses with no paid employees. For additional information on these changes, review the subsequent text.

5. HISTORICAL INFORMATION

The economic censuses have been taken together as an integrated program at 5-year intervals since 1967, and before that for 1963, 1958, and 1954. Prior to that time, the individual censuses were taken separately at varying intervals.

The economic censuses trace their beginnings to the 1810 Decennial Census, when questions on manufacturing were included with those for population. Coverage of economic activities was expanded for 1840 and subsequent censuses to include mining and some commercial activities. In 1902, Congress established a permanent Census Bureau and directed that a census of manufactures be taken every 5 years. The 1905 manufactures

census was the first time a census was taken apart from the regular every-10-year population census.

The first census of business was taken in 1930, covering 1929. Initially it covered retail and wholesale trade, and construction industries, but it was broadened in 1933 to include some of the service trades.

The 1954 economic censuses were the first to be fully integrated—providing comparable census data across economic sectors, using consistent time periods, concepts, definitions, classifications, and reporting units. These were the first censuses to be taken by mail, using lists of firms provided by the administrative records of other federal agencies. Since 1963, administrative records have also been used to provide basic statistics as well for very small firms, reducing or eliminating the need to send them census questionnaires. The Enterprise Statistics Program, which publishes combined data from the economic censuses, was made possible with the implementation of the integrated census program in 1954.

The range of industries covered in the economic censuses has continued to expand. The Census of Construction Industries began on a regular basis in 1967, and the scope of service industries was broadened in 1967, 1977, and 1987. The Census of Transportation began in 1963 as a set of surveys covering travel, transportation of commodities, and trucks. New for 1987 are publications reporting on business establishments engaged in several transportation industries, paralleling the data on establishments in other sectors. This is part of a gradual expansion in coverage of industries previously subjected to government regulation. The Survey of Minority-Owned Business Enterprises was first conducted as a special project in 1969 and was incorporated into the economic censuses in 1972 along with the Survey of Women-Owned Businesses.

Economic censuses have also been taken in Puerto Rico since 1909, in the Virgin Islands and Guam since 1958, and in the Northern Mariana Islands since 1982.

Statistical reports from the 1982 and earlier censuses provide historical figures for the study of long-term time series, and are available in some large libraries. All of the census data published since 1967 are still available for sale on microfiche from the Census Bureau.

6. AVAILABILITY OF MORE FREQUENT ECONOMIC DATA

While the censuses provide complete enumerations every 5 years, there are many needs for more frequent data as well. The Census Bureau conducts a number of monthly, quarterly, and annual surveys, the results of which appear in publication series such as *Current Business Reports* (retail and wholesale trade and service industries), the *Annual Survey of Manufactures*, *Current Industrial Reports*, and the *Quarterly Financial Report*. Most of these surveys, while providing more frequent observations, yield less kind-of-business and geographic

detail than the censuses. The *County Business Patterns* program offers annual statistics on the number of establishments, employment, and payroll classified by industry within each county.

7. SOURCES FOR MORE INFORMATION

More information about the scope, coverage, classification system, data items, and publications for each of the economic censuses and related surveys is published in the *Guide to the 1987 Economic Censuses and Related Statistics*. More information on the methodology, procedures, and history of the censuses will be published in the *History of the 1987 Economic Censuses*. Contact Customer Services for information on availability.

8. CONTENT OF THE ECONOMIC CENSUSES

General—The economic censuses provide a comprehensive statistical profile of a large segment of the national economy. This program includes censuses of manufactures, retail trade, wholesale trade, selected service industries, mineral industries, and construction industries. In 1987, these industries accounted for nearly 60 percent of the \$4,497.2 billion of the gross domestic product and 68 percent of that originating in the private sector. The principal industry groups not covered were finance, insurance, and real estate; agriculture, forestry, and fishing; communications; electric, gas, and sanitary services; and transportation. Limited information on transportation is collected; e.g., truck registration and distances travelled, and shipments of commodities by type of transport and distance shipped. The dates of each of the economic censuses are shown in table A.

Enterprise statistics—Through the history of the economic censuses, the unit of enumeration has been the establishment; i.e., a single physical location engaged in a specific line of business (for more discussion, see section 15). This unit is suited for obtaining measures of direct output and input—labor, material, capital, etc. It is also best suited for providing refined industry and geographic tabulations. Statistics measuring overall income and balance-sheet data are best collected at the company or enterprise level. In the early 19th century, these two business units were often identical. With the rise of large scale operations, it became quite common for the large companies to operate separate manufacturing establishments in a number of diverse industries so that today the establishment and enterprise frequently are not the same. Enterprise measures and balance-sheet data have typically been provided by the Internal Revenue Service (IRS) in its *Statistics of Income* and the Census Bureau in its *Quarterly Financial Report of Corporations*.

In 1954, as part of the economic censuses program, the Census Bureau also developed an enterprise statistics program. This program relates census company-level data to data measuring activities of individual operating units of establishments within the companies. Thus, a measurement of the integration and diversification of the American

Table A. Years Covered by Economic Censuses: 1809 to 1987

Year covered	Manufac- tures	Mineral industries	Fisheries	Construc- tion indus- tries	Retail trade	Wholesale trade	Service industries ¹	Transporta- tion ²
1987.....	X	X	—	X	X	X	X	X
1982.....	X	X	—	X	X	X	X	X
1977.....	X	X	—	X	X	X	X	X
1972.....	X	X	—	X	X	X	X	X
1967.....	X	X	X	X	X	X	X	X
1963.....	X	X	X	—	X	X	X	X
1958.....	X	X	—	—	X	X	X	—
1954.....	X	X	—	—	X	X	X	—
1948.....	—	—	—	—	X	X	X	—
1947.....	X	—	—	—	—	—	—	—
1939.....	X	X	—	X	X	X	X	—
1937.....	X	—	—	—	—	—	—	—
1935.....	X	X	—	X	X	X	X	—
1933.....	X	—	—	—	X	X	X	—
1931.....	X	—	—	—	—	—	—	—
1929.....	X	X	—	X	X	X	—	—
1927.....	X	—	—	—	—	—	—	—
1925.....	X	—	—	—	—	—	—	—
1923.....	X	—	—	—	—	—	—	—
1921.....	X	—	—	—	—	—	—	—
1919.....	X	X	—	—	—	—	—	—
1914.....	X	—	—	—	—	—	—	—
1909.....	X	X	—	—	—	—	—	—
1908.....	—	—	X	—	—	—	—	—
1904.....	X	—	—	—	—	—	—	—
1902.....	—	X	—	—	—	—	—	—
1899.....	X	—	—	—	—	—	—	—
1889.....	X	X	X	—	—	—	—	—
1880.....	—	X	X	—	—	—	—	—
1879.....	X	—	—	—	—	—	—	—
1870.....	—	X	—	—	—	—	—	—
1869.....	X	—	—	—	—	—	—	—
1860.....	—	X	—	—	—	—	—	—
1859.....	X	—	—	—	—	—	—	—
1850.....	—	X	—	—	—	—	—	—
1849.....	X	—	—	—	—	—	—	—
1840.....	—	X	—	—	—	—	—	—
1839.....	X	—	—	—	—	—	—	—
1819.....	X	—	—	—	—	—	—	—
1809.....	X	—	—	—	—	—	—	—

— Not published. X Published.

¹Actual coverage varied from census to census.²Limited information only.

enterprise system became available. The enterprise statistics program also made it possible to link census establishment-based data on a modified basis to enterprise-based statistical systems, such as the IRS's *Statistics of Income for Corporations*.

9. CHARACTERISTICS OF THE INDUSTRIAL SECTOR

General—Manufacturing is the largest sector of the economy. In 1987, manufacturing plants employed 18.9 million persons, or 17 percent of the civilian labor force of 110.8 million. As shown in table B, gross domestic product (GDP) originating in manufacturing averages 19 percent of the total. Services and finance, insurance, and real estate were the next largest sectors accounting for almost 35 percent of the GDP.

Cyclical changes—The need for frequent and comprehensive statistics on manufacturing arises as much from its sensitivity to cyclical influences as from its relative size. Cyclical changes in income originating in manufacturing tend to be relatively larger than in the economy as a whole, as can be seen in the movement of national income originating in manufacturing from 1929 to 1933 and 1933 to 1939 in table C.

Within manufacturing, durable goods industries accounted for about 56 percent of all manufactures during recent periods. This category tends to be more volatile than nondurable goods, generally accounting for a smaller percentage of all manufactures during periods of contraction and a larger percentage during periods of expansion.

Table B. **Gross Domestic Product by Industry for Selected Years: 1954 to 1987**

Industry	1987	1982	1977	1972	1967	1963	1958	1954
	Billion dollars							
Gross national product¹	4 524.3	3 166.0	1 990.5	1 185.9	799.6	596.7	449.7	366.8
Gross domestic product ¹	4 493.8	3 114.8	1 965.1	1 175.0	793.7	591.8	446.6	364.5
Manufacturing	872.1	634.6	465.3	292.5	222.3	167.4	123.8	106.4
Nondurable goods	376.6	272.1	187.7	119.3	88.7	69.8	54.1	45.6
Durable goods	495.4	362.5	277.7	173.2	133.6	97.6	69.7	60.8
Wholesale and retail trade	724.8	506.5	332.8	199.5	130.1	96.1	75.2	60.9
Government and government enterprises	535.9	383.9	247.4	155.4	96.3	65.9	47.1	36.9
Services	792.7	463.6	253.4	136.5	86.1	60.0	42.3	30.5
Finance, insurance, and real estate	764.9	475.1	280.3	169.8	114.2	85.3	62.4	46.5
Contract construction	216.9	140.9	97.9	59.4	37.5	27.4	21.0	17.2
Transportation	151.6	110.8	77.0	45.6	32.1	24.9	20.9	18.1
Agriculture, forestry, and fisheries	98.3	89.6	58.9	35.4	24.2	22.0	21.9	20.7
Electric, gas, and sanitary services	138.8	92.0	53.1	28.8	18.5	14.9	10.7	8.0
Communication	125.5	85.6	48.8	29.8	18.0	13.1	8.9	6.5
Mining	77.0	132.1	50.2	19.0	14.6	13.1	12.4	10.9
Rest of the world ¹	30.5	51.2	25.4	10.9	5.9	4.9	3.1	2.3
	Percent of gross domestic product							
Gross national product¹	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)
Gross domestic product ¹	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Manufacturing	19.4	20.4	23.7	25.0	28.0	28.3	27.7	29.2
Nondurable goods	8.4	8.7	9.6	10.2	11.2	11.8	12.1	12.5
Durable goods	11.0	11.6	14.1	14.8	16.8	16.5	15.6	16.7
Wholesale and retail trade	16.1	16.3	16.9	17.0	16.4	16.2	16.8	16.7
Government and government enterprises	11.9	12.3	12.6	13.3	12.1	11.1	10.5	10.1
Services	17.6	14.9	12.9	11.6	10.8	10.1	9.5	8.4
Finance, insurance, and real estate	17.0	15.3	14.3	14.5	14.4	14.0	14.4	12.8
Contract construction	4.8	4.5	5.0	5.1	4.7	4.6	4.7	4.7
Transportation	3.4	3.6	3.9	3.9	4.0	4.2	4.7	5.0
Agriculture, forestry, and fisheries	2.2	2.9	3.0	3.0	3.0	3.7	4.9	5.7
Electric, gas, and sanitary services	3.1	3.0	2.7	2.5	2.3	2.5	2.4	2.2
Communication	2.8	2.7	2.5	2.5	2.3	2.2	2.0	1.8
Mining	1.7	4.2	2.6	1.6	1.8	2.2	2.8	3.0
Rest of the world ¹	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)

Note: GNP estimates in this table do not agree with those shown in table C because data in this table are consistent with BEA's gross product originating (GPO) estimates published in the January 1991 *Survey of Current Business* which include revisions to the national income and product accounts only through July 1989. Estimates in table C include revisions through July 1990.

(X) Not applicable.

¹Gross national product is the market value of goods and services produced by labor and property supplied by residents of the United States. Gross domestic product is the value of goods and services attributable to labor and property located within the United States. It equals GNP less the "rest of the world" which is the net inflow of labor and property income from abroad.

For example, in the early 1930's durable goods manufacturing fell to approximately one-third of the total.¹

Geographic distribution—In the early and middle 19th century, manufacturing activity was concentrated in the Northeast. Over the past 130 years, there has been a steady decline in the proportion accounted for by the Northeastern States. (See table D.) Industry expanded into the North Central Region in the latter part of the 19th century and, in more recent years, displayed a marked growth in the South and West.

¹Based on national income rather than gross domestic product (GDP). Industry detail for GDP is available only from 1947; whereas, industry detail for national income is available from 1929 and encompasses the very depressed period of the 1930's.

Size distribution—Manufacturing activity tends to be characterized by relatively large-scale operations. While there are many small manufacturing plants, they account for a relatively small part of the total output of goods. As shown in table E, nearly half the plants covered in the 1987 Census of Manufactures were very small (employing less than 10 workers), but they accounted for less than 3 percent of total manufacturing activity as measured by value added by manufacture. (See appendixes for definition of value added.)

10. CENSUS OF MANUFACTURES—BENCHMARK STATISTICS

In the farm-oriented economy of the early 19th century, the need for industrial statistics for setting Government policy, except for tariffs and taxes, was slight. A few

Table C. **Total National Income and Amounts Originating in Durable and Nondurable Manufactures for Selected Years: 1929 to 1987**

[Billion dollars]

Year	Gross national product ¹	Gross domestic product ¹	National income without capital consumption adjustment ¹	National income originating in manufacturing			Manufacturing as percent of national income (D/C)	Durable goods industries as percent of total manufacturing (F/D)
				Total	Nondurable goods industries	Durable goods industries		
A	B	C	D	E	F	G	H	
1987	4 515.6	4 486.7	3 629.3	719.7	293.0	426.7	20	59
1986	4 231.6	4 197.2	3 374.7	673.6	267.0	406.6	20	60
1985	4 014.9	3 974.1	3 196.6	671.2	275.4	395.8	21	59
1984	3 772.2	3 724.8	3 026.5	660.3	267.9	392.4	22	59
1983	3 405.7	3 355.9	2 741.7	585.4	253.6	331.8	21	57
1982	3 166.0	3 114.8	2 574.9	560.0	246.8	313.2	22	56
1981	3 052.6	3 000.5	2 503.2	588.2	247.8	340.5	23	58
1980	2 732.0	2 684.4	2 263.9	532.1	218.4	313.7	24	59
1979	2 508.2	2 464.4	2 098.6	512.0	200.6	311.4	24	61
1978	2 249.7	2 219.1	1 880.8	467.1	180.7	286.4	25	61
1977	1 990.5	1 195.1	1 653.4	415.7	165.5	250.2	25	60
1976	1 782.8	1 761.7	1 473.8	367.2	150.8	216.4	25	59
1975	1 598.4	1 580.9	1 315.0	317.5	132.5	185.0	24	58
1974	1 472.8	1 453.3	1 216.8	301.9	120.5	181.4	25	60
1973	1 359.3	1 343.1	1 128.4	286.2	109.3	176.9	25	62
1972	1 212.8	1 201.6	998.5	252.9	98.6	154.4	25	61
1971	1 102.7	1 093.4	902.8	227.1	92.3	134.8	25	59
1970	1 015.5	1 008.2	835.1	215.6	87.9	127.7	26	59
1969	963.9	957.1	798.9	222.4	85.9	136.5	28	61
1968	892.7	885.9	739.3	211.5	81.8	129.7	29	61
1967	816.4	810.4	676.7	194.2	74.9	119.2	29	61
1966	772.0	766.3	640.6	190.1	72.4	117.7	30	62
1965	705.1	699.3	583.6	171.6	66.1	105.6	29	62
1964	649.8	644.4	536.3	154.8	61.5	93.4	29	60
1963	606.9	602.0	499.6	144.1	57.6	86.5	29	60
1962	574.6	570.1	473.6	136.3	55.2	81.1	29	60
1961	533.8	530.0	442.2	125.2	52.8	72.5	28	58
1960	515.3	511.8	428.6	125.3	52.0	73.4	29	59
1959	495.8	492.7	413.4	124.5	51.3	73.2	30	59
1958	456.8	453.9	379.7	108.1	45.9	62.2	28	58
1957	451.0	447.7	377.6	116.5	46.5	70.1	31	60
1956	428.2	425.2	360.9	113.4	46.3	67.0	31	59
1955	405.9	403.3	340.0	108.1	44.1	64.0	32	59
1954	372.5	370.3	311.3	94.9	39.8	55.1	30	58
1953	371.6	369.5	312.5	100.6	40.4	60.2	32	60
1952	351.6	349.4	298.2	92.7	38.3	54.4	31	59
1951	333.4	331.4	284.1	90.4	38.5	51.9	32	57
1950	288.3	286.7	245.6	76.4	33.4	43.0	31	56
1949	260.4	259.0	221.2	64.9	30.6	34.3	29	53
1948	261.6	260.1	227.8	68.8	32.9	35.9	30	52
1947	235.2	234.1	202.3	60.0	28.3	31.7	30	53
1946	212.4	211.6	185.2	49.6	25.1	24.5	27	49
1945	213.4	213.0	183.0	52.2	21.2	31.0	29	59
1944	211.4	210.9	184.1	60.3	21.0	39.3	33	65
1943	192.7	192.3	171.7	58.3	19.7	38.6	34	66
1942	159.0	158.5	138.4	45.4	16.6	28.9	33	64
1941	125.5	125.0	105.1	33.2	12.9	20.3	32	61
1940	100.4	100.1	81.7	22.5	10.3	12.2	28	54
1939	91.3	90.9	73.2	18.1	9.1	9.0	25	50
1938	85.4	85.0	68.0	15.2	8.4	6.7	22	44
1937	91.3	90.9	74.3	19.5	9.6	9.9	26	51
1936	83.1	82.8	65.4	16.3	8.2	8.1	25	50
1935	72.8	72.4	57.5	13.4	7.3	6.1	23	46
1934	65.6	65.3	49.7	11.1	6.5	4.6	22	41
1933	56.0	55.7	40.4	7.7	4.9	2.8	19	36
1932	58.5	58.1	42.9	7.3	5.3	2.1	17	29
1931	76.4	75.9	59.9	12.5	7.5	5.0	21	40
1930	91.1	90.4	75.7	18.3	9.8	8.5	24	46
1929	103.9	103.2	87.1	22.0	10.6	11.3	25	51

Source: U.S. Department of Commerce, *Survey of Current Business*.

¹Gross national product is the market value of goods and services produced by labor and property of the United States. Gross domestic product is the value of goods and services produced within the United States. National income is gross national product less capital consumption allowances, indirect business taxes, and business transfers plus subsidies less surplus of Government enterprises.

Table D. Employment in Manufacturing Establishments by Region: 1849 to 1987

Year	United States	North-east	Midwest	South	West
Number of employees (1,000)					
1987	18 950	4 357	5 508	5 839	3 246
1982	19 094	4 799	5 406	5 816	3 073
1977	19 590	5 008	6 272	5 593	2 717
1972	19 029	5 306	6 135	5 221	2 367
1967	18 492	5 573	6 059	4 553	2 305
1963	16 235	5 190	5 239	3 780	2 025
1958	15 423	5 242	5 107	3 382	1 779
1947	14 294	5 429	5 109	2 710	1 054
1939	9 527	3 879	3 184	1 852	612
1929	10 198	4 246	3 516	1 758	675
1899	5 077	2 629	1 474	793	181
1849	957	696	110	146	4
Percent of U.S. total					
1987	100	23	29	31	17
1982	100	25	29	30	16
1977	100	26	32	29	14
1972	100	28	32	27	13
1967	100	30	33	25	12
1963	100	32	32	23	13
1958	100	34	33	22	12
1947	100	38	36	19	7
1939	100	41	34	20	6
1929	100	42	35	17	7
1899	100	52	29	16	4
1849	100	73	12	15	(Z)

Source: Census of Manufactures

Note: Detail may not add to totals because of independent rounding. 1849 data include hand and neighborhood industries which were excluded from censuses of manufactures beginning with 1899.

Table E. Establishments and Value Added by Manufacture by Size of Establishment: 1987

[Cumulative percentage]

Employment-size class	Establishments	Value added by manufacture
All establishments.....	100.0	100.0
1 to 4 employees.....	32.6	.9
1 to 9 employees.....	50.1	2.5
1 to 19 employees.....	66.4	5.6
1 to 49 employees.....	82.5	13.1
1 to 99 employees.....	90.4	22.1
1 to 249 employees.....	96.5	38.9
1 to 499 employees.....	98.7	54.1
1 to 999 employees.....	99.6	68.4
1 to 2,499 employees.....	99.9	82.4

Source: Census of Manufactures

publications on physical output of commodities originated either from private sources (flour, iron, steel, etc.) or as a byproduct of tax collection or other Government functions (liquor, beer, tobacco products, etc.). The only source of information on the growing manufacturing sector was the census of manufactures, then taken at 10-year intervals. Today, the need for industrial statistics has greatly increased, and there is now a vast array of detailed information covering virtually every measurable aspect of industrial activity including employment; payrolls; hours worked;

production; prices; inventories; orders; investment in structures, machinery, and equipment; and consumption of raw materials, fuels, and water. Many of these statistics are available at frequent intervals and promptly after the close of the accounting period. Sophisticated indicators of economic change also have been developed, such as price and production indexes and the gross national product accounts which are published at monthly or quarterly intervals.

The census of manufactures, though conducted only at 5-year intervals, still plays an essential role since no other source measures the structure of the industrial sector in such a comprehensive and detailed way.

For every manufacturing plant with one employee or more, the census obtains data on input of labor, materials, and capital; output of products and services; location; and the legal form of organization of the owning firm.²

A set of general statistics is developed for each establishment (that is, total employment, payroll, number of production-worker hours and wages, cost of materials, value of shipments, inventories, capital expenditures, and value added by manufacture) and aggregated by industry, area, employment size of establishment, degree of product specialization within plant, and type of ownership. Reports are published on the detailed industrial characteristics of each State and large metropolitan statistical area (MSA); and overall measures of manufacturing activity are shown at the county and individual place level if the information can be published without compromising the confidentiality of individual company data. Since census legislation guarantees confidentiality to the firms that are required to report, it is frequently necessary to suppress some aggregates. Because a significant amount of industry detail cannot be published for the 3,132 counties and county equivalents in the United States, a special computer tape on Location of Manufacturing Plants was developed to provide a complete industry by county cross section description of manufacturing. This tape includes the number of establishments in each of the 459 industries by county or county-equivalent area, by employment size. Comparison of this complete profile between censuses is used to study shifts in the geographic dispersion of industries and the industrial structure of local areas.

The census of manufactures also facilitates the conduct of more frequent surveys on a sample basis. In fact, the present legislation specifying that censuses be conducted every 5 years authorizes an annual survey of manufactures (ASM) on a sample basis during the intervening years. The 5-year census provides the framework for selecting a new sample and the periodic universe levels to benchmark the sample estimates. The sample includes about one-sixth of all establishments. All large establishments are included in every sample; the smaller establishments are selected proportionately to their size and are replaced at the end of each census. Thus, there is an annual updating of the census of manufactures in terms of broad measures of

²Since 1967, some information for 120,000 small companies was not obtained directly but estimated from other Government records. See discussion of coverage of establishments in sections 13 and 16.

economic activity. The ASM contains the same basic measures of economic activity of the plant (such as employment, payroll, value of shipments, value added by manufacture) as does the census of manufactures, but obtains less detailed information on products, materials consumption, and equipment.³

The census of manufactures also is used to update other indicators of economic activity, especially the national income accounts. Census data on materials consumed and product output by industry are basic to the input-output matrix developed by the Bureau of Economic Analysis (BEA) for the manufacturing sector. The Federal Reserve Board's monthly Index of Industrial Production (a key indicator of current economic activity) relies on census industry and product data as benchmarks and weights to sum industries to higher levels of aggregation. The census and ASM also provide benchmarks for hundreds of monthly and quarterly surveys of commodity output conducted by the Bureau of the Census, other Government agencies, and by manufacturers' associations.

11. INDUSTRY CLASSIFICATION OF ESTABLISHMENTS

Structure of the Standard Industrial Classification (SIC) System—The establishments in the census of manufactures are classified according to the SIC Manual.⁴ The SIC manual covers the entire field of economic activities, subdivided as follows:

Industrial division	Title	Major groups
A	Agriculture, forestry, and fishing	01-09
B	Mining	10-14
C	Construction	15-17
D	Manufacturing	20-39
E	Transportation, communications, electric, gas, and sanitary services	40-49
F	Wholesale trade	50-51
G	Retail trade	52-59
H	Finance, insurance, and real estate	60-67
I	Services	70-89
J	Public administration	91-97
K	Nonclassifiable establishments	99

Below the major-group level, the SIC provides for three-digit groups and finally for four-digit industries. To illustrate:

Division D—Manufacturing

Major group 20.....	Food and kindred products
Industry group 202.....	Dairy products
Industry 2023.....	Dry, condensed, and evaporated dairy products

³Since the ASM is based on a sample, cross classifications by industry and by area are fewer than in census of manufactures. At the U.S. level, statistics are published in an annual survey for practically all 459 industries. At the State level, statistics are published only for two- and three-digit industry groupings.

⁴*Standard Industrial Classification Manual: 1987*. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Stock No. 041-001-00314-2.

The SIC system was developed to classify establishments as distinguished from similar systems used to classify companies or enterprises. An establishment is defined as a single physical location engaged in one of the industry categories of the SIC.

This SIC system is the responsibility of an intragovernmental technical committee headed by the Office of Management and Budget. The system is used by all Federal Government agencies engaged in the classification of establishments. Many State and local governments and business concerns also organize their own records along SIC system lines in order to facilitate comparison with Federal statistics.

The first SIC Manual was issued in 1939. For the manufacturing sector, the nucleus was the set of industry classifications developed over many years for use in the census of manufactures. A revised manual was issued for the manufacturing industries in 1945 and, with minor modifications, used in the 1947 and 1954 Censuses of Manufactures. In 1957, the SIC Manual was extensively revised for manufacturing industries, and the historical comparability of some data was seriously affected. The introduction and appendixes to the 1958 census volumes discuss in detail this revision and its effects on census series. Only minor revisions of the SIC Manual were made between 1958 and 1967. The next extensive revision of the SIC Manual affecting the comparability of industries was completed in 1972. These revisions and their impact on comparability appear in appendix C of the 1972 Census of Manufactures volumes. The latest revision affecting comparability was issued for 1987. Appendix A of the 1987 SIC Manual notes the revisions in the four-digit industry levels between 1972 and 1987.

Structure of the manufacturing SIC system—For manufacturing, there are 20 two-digit SIC major groups (20-39) which are subdivided in 139 three-digit SIC groups (201-399) and into 459 four-digit industries (2011 to 3999). The Census Bureau combined some small industries in order to publish data.

Most of the 459 manufacturing industries are defined in terms of specific groups of related products. Usually the products are made of similar materials and by similar processes and many are competitive, but the SIC system does not necessarily bring together products which are close substitutes in use and competitive in markets. In determining the boundaries of industries,⁵ it is essential that each industry comprises a group of establishments that are highly specialized in making products that define the industry (primary products) and that a large proportion

⁵Frequently, business analysts and other data users look at a group of products from more than one point of view. For example, modern high-speed computers are classified as office machines. This describes the purpose of the product. In a physical sense, however, such computers would be described as electronic devices. Similarly, paper bags, wooden boxes, glass bottles, tin cans, and steel barrels may all be classified as containers, or they may be individually grouped with other products of similar materials, such as converted paper products, wood products, glass products, etc.

of all the products be made in establishments classified in the industry. While similarity of product is most frequently the determining factor in defining an industry, some industries are defined in terms of the processes or equipment used regardless of the final product of the establishment. (Example: Industry 3363, Aluminum Die-Castings). A small number of industries are basically defined by material used as well as final product of the plant. (Example: Industry 2521, Wood Office Furniture, and Industry 2522, Office Furniture, Except Wood)

There are wide differences among industries in their purity; i.e., the extent to which the establishments classified in the industry—

1. Account for the total production of commodities “primary” to the industry.
2. Produce products or services “belonging” to other industries (that is, secondary products).
3. Use similar materials or processes.

These variations are frequently construed to be shortcomings. However, these limitations in the classification structure arise from the inherent complexity of our economic system and from the variation in types of production that take place in individual establishments.

While the SIC system is the basis for aggregating census data, the data collected, in turn, provide the statistical basis for periodic critical evaluation of that classification system and its revision.⁶

No general-purpose system of industrial classification can satisfy all users of census data. Some business users are interested primarily in a narrow range of products which they and their competitors produce. Others are involved in a wide range of products that move through the same marketing channel. Others seek data relating to the consumers of one or more types of materials. Some are interested only in the data for highly specialized plants; others for plants producing a “full line” of products. Those studying productivity may require data for plants using the same techniques.

The large number of SIC industries provides the analyst with the “building blocks” for making useful approximations, even if specific data cannot be developed to resolve many of these problems. A single general purpose system of classification can only partially satisfy these diverse needs; a point is soon reached at which the adaptation of a system to better serve one use will reduce its ability (sometimes disproportionately) to serve an alternative use.

Accordingly, users of data frequently regroup detailed SIC industries differently from the two- and three-digit SIC categories. For many years, the Federal Reserve Board has made combinations to stress such characteristics of

products as durable, nondurable, consumer, producer, finished, intermediate goods, etc. Other public and private agencies also recombine the detailed classes. The four-digit industries are more susceptible to allocation to such categories than the two-digit SIC groups.

Subindustries—The Census Bureau frequently has further classified some of the basic four-digit SIC industries into “subindustries.” Subindustries are employed where there are wide disparities in the input-output relationships (or operating ratios) of the plants in the industry because of differences in the degree of vertical integration, technology, methods of distribution, geographic location, types of materials used, etc. In approximately 61 manufacturing industries, subindustries were established for editing purposes and many were regarded significant enough to be used for publication. For example, the bakery industry (Industry 2051) is subdivided into wholesale bakeries, chain-store bakeries, home-service bakeries, and retail multioutlet bakeries; and many apparel industries (Major Group 23) are subclassified into manufacturers, contractors, and jobbers.

To provide a further measurement of variations within four-digit industries, the Census Bureau also subclassified establishments by the degree they produce primary products or specific classes of primary products of the four-digit industry in which they are classified. This is, in effect, a subindustry classification based on the degree of product specialization which is published in table 5a of the industry reports.

Definition of manufacturing—Manufacturing includes a wide range of activities as defined in the SIC Manual. Manufacturing is the mechanical or chemical transformation of substances into new products. The assembly of component parts of products also is considered to be manufacturing if the resulting product is neither a structure nor other fixed improvement. These activities are usually carried on in plants, factories, or mills, which characteristically use power-driven machines and materials-handling equipment.

Manufacturing production is usually carried on for the wholesale market, for transfer to other plants of the same company, or to the order of industrial users. Typically, manufactures do not sell directly to the household consumer, although some (for example, baking, milk bottling, etc.) sell chiefly at retail to household consumers through the mail, through house-to-house routes, or through salespersons. Some service-type activities (enameling, binding, platemaking, etc.) are included in manufacturing if they are performed primarily for trade; but are considered nonmanufacturing if they are performed primarily to the order of the household consumer. On the other hand, some manufacturing industries include business firms which perform only the entrepreneurial functions of buying the materials and designing and marketing the product, but have the actual production done on contract (for example, apparel jobbers).

⁶See *Industry Classification and Sector Measures of Industrial Production* by James W. McKie, Bureau of the Census Working Paper No. 20, 1965, and *Historical Comparability of Census of Manufactures Industries, 1929-1958*, by Harold T. Goldstein, Bureau of the Census Working Paper No. 9, 1959.

Establishment classification system—The SIC system is an establishment classification system, and the census of manufactures is conducted on an establishment basis. That is, a company with operations at more than one location is required to submit a report for each location. On the other hand, a company engaged in distinctly different lines of activity at one location is required to submit a separate report for each activity if the plant records permit such a separation and if the activities are substantial in size.

The requirement that distinct lines of activity at the same location be separately reported was applied only where the establishment produced and shipped significant amounts of products classified in different SIC industries. In widely varying degrees, many manufacturing establishments make products that fall into different SIC industries. Generally, the amounts involved are not significant enough to warrant the filing of separate reports, even if feasible. However, there are a number of locations where large numbers of employees are engaged in activities defined in different industries of the SIC system. Frequently, companies organize their operations and their records separately for the diverse activities and report them as separate plants. When they do not do so on their own initiative, the Census Bureau requests separate reports if it appears that 100 employees or more are involved in each activity. For the most part, companies have cooperated and “split out” the different activities which would otherwise significantly distort the relationship of the industry and product statistics. Not infrequently, the two groups of products are made on the same production lines by many of the same employees and cannot be distinguished sufficiently in company records to provide establishment-type reporting.

The SIC system also recognizes special situations where otherwise separately classifiable activities frequently occur at one location. For example, the definition of Industry 2421, Sawmills and Planing Mills, recognizes that sawmills may include logging operations. Similarly, pulp mills operated in combination with paper mills are included in one report.

Establishments included in census of manufactures—Beginning with the 1947 Census of Manufactures, the censuses have included only establishments with one employee or more. Prior to 1947, different criteria were used to determine if an establishment had to report in the census. In the censuses of 1921 through 1939, establishments with less than \$5,000 value of products were excluded. For 1899 to 1919, the limit was \$500. The change in the minimum-size criterion to an employment basis in 1947 did not appreciably affect the overall comparability of earlier census figures, except the number of establishments.⁷

⁷Point is discussed in greater detail in the Introduction to the 1947 volumes.

Table F. Number of Establishments and Total Value of Shipments for Firms Without Paid Employees by Selected Major Groups: 1987

Major group	Number of establishments (1,000)	Total value of shipments (mil. dol.)	Percent of shipments of firms without paid employees to firms with paid employees
Total	291.7	10 034.4	.41
Food and kindred products	7.4	272.9	.08
Textile mill products	3.0	41.7	.07
Apparel and other textile products	24.6	591.1	.92
Lumber and wood products	70.3	3 228.8	4.63
Furniture and fixtures	14.3	380.5	1.02
Printing and publishing	43.9	2 277.8	1.67
Chemicals and allied products ..	1.5	50.6	.02
Leather and leather products ...	3.5	73.1	.80
Stone, clay, and glass products ..	18.9	231.1	.38
Primary metal industries	1.4	53.5	.04
Fabricated metal products	18.5	529.7	.36
Machinery, except electrical ...	27.6	849.0	.39
Electronic and other electrical equipment	6.4	81.5	.05
Transportation equipment	2.1	74.5	.02
Other ¹	48.3	1 298.6	.27

¹Figures may be overstated due to misclassification of some establishments that should have been classified in one of the above major groups.

A sample survey of manufacturing plants with no paid employees was conducted for the 1987 Census. As shown in table F, there were approximately 291,700 establishments in this category. They accounted for less than 1 percent of the total value of shipments of all manufacturing industries. The proportion was higher for certain industry groups, such as lumber and wood products, and printing and publishing.

Special treatment of very small establishments—Beginning with the 1967 census, an effort was made to relieve the very small establishments from the necessity of filing a census report. Approximately 155,000 small single-establishment manufacturing firms identified as having up to 20 employees (cutoff varied by industry) benefited from this procedure for 1987. Limited data on payrolls, sales, and industry classification from the administrative records of the Social Security Administration (SSA) and the Internal Revenue Service (IRS) were made available to the Census Bureau. (These special arrangements safeguarded the confidentiality of both tax and census records.) Estimates of data for these small establishments were developed using industry averages in conjunction with the administrative information. The effect on industry aggregates is slight in most industries; for manufacturing as a whole, these small administrative records account for only 2.2 percent of the value added. Detailed product and materials data for

these small establishments were not estimated; the entire value of product shipments and cost of materials was imputed to a "not specified by kind" (n.s.k.) category. If these establishments had been included in the 1977 Census of Manufactures, they would have been assigned the industry classifications to which they had been coded. If they had started business later, they were coded on the basis of brief descriptions of the general activity of the establishment as reported to the SSA. Where the description is incomplete or there are relatively fine lines of demarcation between industries or between manufacturing and nonmanufacturing activity, the code assigned to an establishment could differ from that which would have been assigned on the basis of more complete product information. Therefore, the Census Bureau conducted a special classification survey in order to clarify the industry codes of some of the establishments in the administrative-record file. All establishments without specific four-digit codes and those where there could be significant misclassification between manufacturing and other sectors were sent such a questionnaire. Nevertheless, the total establishment counts in most industries should be viewed as approximations rather than precise measurements. The counts for establishments with 20 employees or more are far more reliable than the total number of establishments.

Auxiliary units—Manufacturing requires a wide range of diverse support activities. These activities include movement to the manufacturing plant, storage, operation and maintenance of plant and equipment, design of flow of work through the production process, and necessary arrangements for shipment of output to customers. Also included is a host of subsidiary activities associated with the operation of an establishment (for example, management and policy formation, product and market accounting, physical security of plant and equipment, etc.).

Support and subsidiary activities may be performed by personnel located at the manufacturing establishments or at a separate location serving one manufacturing location or more of the same company. These separate locations are referred to as auxiliaries. Where these activities are carried on at a different physical location or are performed for more than one plant, they are excluded from the figures for operating manufacturing establishments and are included in the data shown for auxiliaries. (See the description of the questionnaire used for these establishments, Form ES-9200, in section 14).

Borderline activities—The following types of activities, while having some of the characteristics usually found in manufacturing, are considered as nonmanufacturing and, therefore, are excluded from the census:

1. Processing on farms when the raw materials are grown on the farm and the manufacturing activities (poultry dressing, milk and butter production, logging, etc.) are on a small scale without extensive use of paid labor. Also custom milling, egg hatching, cotton ginning, and similar activities closely associated with agriculture are excluded.

2. Mineral preparation, such as the crushing, screening, and concentrating of ores. However, mining performed as a secondary activity in conjunction with manufacturing is included in the census unless a separate report for the mining activity was filed; for example, stone and clay mining at cement, lime, and clay products plants.
3. Custom work to the individual order of household consumers. Examples are custom tailoring, wood-working, lettering on monuments, setting of diamonds, and the making of orthopedic appliances.
4. Repair and other service activities, except specified services performed "for trade." Repair shops of railroads are also excluded.
5. Production of coke "for own use" by establishments owned by public utility companies.

Census establishment-based data measure manufacturing as primary activity. In the census of manufactures, no attempt is made to measure the extent of manufacturing at locations which are not primarily manufacturing plants, such as retail establishments which sell most of their products on the premises directly to household consumers (retail bakeries,⁸ ice cream stores, etc.), or manufacturing by construction contractors at the site (for example, production of paving mixtures).

Conversely, it is not unusual for manufacturing establishments to also engage in some nonmanufacturing activities, such as repair work, merchandising of products without further processing, and installation work. Ordinarily, these nonmanufacturing receipts are small in relation to the manufacturing activities and, therefore, it is not difficult to determine that the establishments should be included in the manufactures area. However, if the nonmanufacturing activities account for a significant proportion of total receipts of an establishment, the classification of that establishment into the appropriate major economic sector is more difficult.

In the economic censuses, an establishment engaged in a combination of manufacturing and merchandising is assigned either to the manufacturing or the trade industries depending on which of these activities was estimated to account for the larger share of its "value added" or "income produced." This criterion, even though based on approximation, was considered preferable to treating each dollar of receipts from each type of activity equally in determining the primary industry, since manufacturing requires considerably more worker-hours, salaries and wages, and capital inputs per dollar of receipts than either wholesaling or retailing. However, in classifying establishments engaged in manufacturing and also in mining, repair work, installation, construction, or other nonmanufacturing services, dollar receipts were used as the basis of classification because these activities require substantially comparable input per dollar of receipts.

⁸Separate data for retail bakeries with baking on the premises were included in the retail census publications.

Product codes—The SIC coding system is designed to describe industries and operates in such a way that the definitions become progressively narrower with successive additions of numerical digits. There are 20 very broad two-digit groups, 139 three-digit groups, and 459 four-digit industries. Based on the SIC Manual, the Census Bureau has developed a product coding system along similar lines which contains about 1,500 five-digit product classes and approximately 11,000 individual seven-digit products. The seven-digit products and five-digit product classes are considered the primary products of the industry with the same first four digits as the product code. For example, the seven-digit product code number 2023612 refers to canned evaporated milk. The first five-digits of this code number 20236, refer to the product class canned milk, and the first four digits 2023, refer to the industry in which these products are made (the condensed and evaporated milk industry). The same system is applied to the coding of materials. The first four digits of a material code (for example, 024111, whole milk used as material) describe the industry that produces it; e.g., 0241 agricultural industry, dairy farms.⁹

This SIC-based system is simpler than other systems for the coding of industrial products and materials used, since there is a direct numerical relationship between commodities and industries. Complications occur in the few SIC industries defined in terms of processes or equipment used as well as products made. As an example, women's sweaters are produced in knitting mills (industry 2253) and also cut-and-sew shops (industry 2339). To retain the industry-of-origin concept, it is necessary to assign different product codes to women's sweaters depending on where they are made.

The SIC-based commodity classification is used in the Census Bureau's entire industrial statistics program, including monthly, quarterly, and annual surveys, and also in the census of wholesale trade. The Census Bureau also publishes data on imports and exports in terms of SIC-based categories as well as the traditional Schedule B and Tariff Schedule of United States Annotated (TSUSA) systems.¹⁰

Primary and secondary products of establishments—An establishment is classified in a particular industry if its production of the primary products of that industry exceeds in value its production of products of any other single industry. The industry code assigned to the establishment is derived from a summation of values for seven-digit product codes to their four-digit industry and the selection of the largest four-digit value as the establishment's industry classification. However, as mentioned earlier, the industry classification of an establishment may be determined not only by the products it makes but also by the processes employed or materials used in making those products.

While some establishments produce only the primary products of the industry in which they are classified, it rarely happens that all the establishments in an industry specialize to this extent. Therefore, the general statistics (employment, payroll, inventories, value added by manufacture, total value of shipments, capital expenditures, etc.) shown for an industry (tables 1 to 4 of the industry reports) encompass not only the primary activities of the establishments in that industry but also their secondary activities. On the other hand, the product statistics in table 6 of the industry reports measure the total output of specific products whether they are produced by establishments classified in the same industry as the product or not. For this reason, in relating the general statistics of an industry, especially the industry total value of shipments, to the product statistics (table 6 of the industry reports), the composition of the industry's output as shown in table 5b of the industry reports should be considered.

The extent to which industry and product statistics may be matched with each other is measured by the two ratios shown in table 5b. The first of the ratios, called the primary product specialization ratio, is the proportion of product shipments (both primary and secondary) of the industry made up of primary products. The second, defined as the coverage ratio, is the proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

Degree of integration—In many industries, establishments use a wide variety of processes and materials to make the products of the industry. An industry classification based on end products may include establishments which are vertically integrated and those which put only the finishing touches on an already highly-fabricated purchased item. For example, in the refrigeration industry, there are some establishments that are almost completely integrated, producing the compressor and condensing unit, electric motor, and even the castings for those intermediate products, as well as the stamping of the case and the final assembly. In other plants, the condensing unit, the motor, and the case may be purchased and merely assembled into the finished product.

In some instances, nonintegrated plants have been placed in separate industry categories from the integrated plants. In many industries, the census provides separate statistics on departmental operations or on the production of intermediate commodities made and used in the producing plant. When an industry includes plants which ship a significant proportion of their output to other plants of the same company, separate figures are usually shown on the interplant transfers.

These differences in the integration of production processes, types of operations, and types of materials used, should be taken into account when relating the general

⁹See tables 6a and 7 in the industry reports.

¹⁰Schedule B is the U.S. export classification while TSUSA is applied to imports.

items (employment, payroll, value added, etc.) to the product and materials data. Where integrated operations are of consequence in an industry, that fact is pointed out in the explanatory text.

Industry code resistance—The production of many establishments is so evenly divided among two industry-determining product groups or more that the industry codes could change from year to year (industry codes can be based on less than half of the total value if there are three groups or more). In the ASM, plants had always been prevented from shifting back and forth among industries due to minor shifts in product mix in the years between censuses by the application of a “resistance formula” in assigning industry classifications. In census years, such resistance was not applied.

A resistance formula of the ASM type was first used in the 1963 Census of Manufactures. In the 1987 census, the formula was applied only to establishments included in the 1986 ASM sample panel with certainty (that is, included with a probability of “1”). In general, these certainty cases were establishments with 250 employees or more or total value of shipments of \$40 million or more.

The formula recognizes the conflicting need to maintain continuity in the establishment composition of an industry to measure change and the need to allow establishments to be reclassified to measure the current composition of the industry.

In the 1987 census, the industry classification of a certainty establishment was allowed to change from that assigned in 1986 under one of the following conditions:

1. The value of the 1987 primary products constituted 60 percent or more of its total value of product shipments.
2. The value of 1987 primary products, while less than 60 percent of the total, was at least twice the value of products which had determined the 1986 industry code.
3. The value of 1987 primary products, while not meeting either of the two above conditions, had been the largest group of products for at least 2 years; i.e., exceeded the value of the 1986 primary industry's products in both 1987 and 1986 by at least 20 percent.

12. GEOGRAPHIC CLASSIFICATION

Census divisions and regions—The 1987 Census of Manufactures measures industrial activity at the State, metropolitan area, county, and place levels. Prior to 1977, similar information was also provided for the traditional nine geographic divisions (e.g., New England, Middle Atlantic, etc.) and the four geographic regions (Northeast, South, Midwest, and West).

The presentation of data for individual industries and industry groups at all these geographic levels has always created serious problems in protecting the confidentiality of individual company data. Consequently, it has frequently been necessary to set priorities regarding what will be published (see section 28). In the past, the preference was given to publishing data for the broad geographic regions over States leading to greater suppression of industry detail at the State level. There has been increasing interest in State information in preference to the broader regions. As a result, the 1977, 1982, and 1987 Censuses of Manufactures gave first precedence to publishing State figures. A decision also was made to forego publication of any divisional and regional totals. This was desirable to avoid suppressing industry detail in one State that could have been published in order to protect data for another State in the same division that had to be suppressed to preserve the confidentiality of a respondent's figures.

Value added data for the nine geographic divisions and four regions are shown in table G. In addition to the value added data, the table also provides the percentages of the total for regions, divisions, and States. Figure 1 shows the percentage of value added attributed to each State for 1987. Figure 2 highlights the regions and their share of value added by manufacture.

Metropolitan areas—In addition to the data for the legally constituted geographic units (States, counties, and places), all manufacturing totals are shown for MA's.¹¹ In the 1987 tables, detail for two-, three-, and four-digit industries is shown for an MA if data for individual companies would not be disclosed, and the industry had at least 250 manufacturing employees. These are the same criteria as those used in the 1982, 1977, 1972, and 1967 censuses. In censuses prior to 1967, detail was not shown for MA's with less than 40,000 total manufacturing employment, and only industry group figures were shown for MA's with 40,000 to 190,000 employees.

An MA is an integrated economic and social unit with a large population nucleus. Each MA consists of one or more counties or statistically equivalent areas meeting published standards of population and metropolitan character; in the six New England States (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont), cities and towns (rather than counties) are used as the component geographic units.

An MA with a population of 1 million or more may be subdivided into primary metropolitan statistical areas (PMSA's). A PMSA consists of a large urbanized county or a cluster of counties (cities and towns in New England) that demonstrates very strong internal economic and social links separate from the ties to other portions of its MA.

Industrial counties or county equivalents—Counties are the primary divisions of States, except in Louisiana where they are called parishes and in Alaska where they

¹¹See appendixes for a description of each MA.

Table G. Value Added by Manufacture for Regions, Divisions, and States: 1987

Geographic area	Value added by manufacture (mil. dol.)	United States, total (percent)
United States.....	1 165 746.8	100.0
Northeast Region.....	259 073.5	22.2
New England Division.....	78 908.4	6.8
Connecticut.....	22 348.9	1.9
Maine.....	5 270.6	.5
Massachusetts.....	35 769.7	3.1
New Hampshire.....	8 188.6	.7
Rhode Island.....	4 787.5	.4
Vermont.....	2 543.1	.2
Middle Atlantic Division.....	180 165.1	15.5
New Jersey.....	42 526.6	3.6
New York.....	80 033.3	6.9
Pennsylvania.....	57 605.2	4.9
North Central Region.....	350 968.6	30.1
East North Central Division.....	266 247.9	22.8
Illinois.....	63 350.1	5.4
Indiana.....	39 278.8	3.4
Michigan.....	60 258.6	5.2
Ohio.....	71 707.4	6.2
Wisconsin.....	31 653.0	2.7
West North Central Division.....	84 720.7	7.3
Iowa.....	14 469.0	1.2
Kansas.....	12 908.8	1.1
Minnesota.....	23 151.9	2.0
Missouri.....	25 916.7	2.2
Nebraska.....	5 819.2	.5
North Dakota.....	979.0	.1
South Dakota.....	1 476.1	.1
South Region.....	354 379.5	30.4
South Atlantic Division.....	179 074.7	15.4
Delaware.....	3 866.0	.3
District of Columbia.....	1 525.4	.1
Florida.....	27 574.2	2.4
Georgia.....	33 708.1	2.9
Maryland.....	14 020.0	1.2
North Carolina.....	47 007.4	4.0
South Carolina.....	19 111.9	1.6
Virginia.....	26 857.3	2.3
West Virginia.....	5 404.4	.5
East South Central Division.....	74 296.1	6.4
Alabama.....	18 652.1	1.6
Kentucky.....	18 091.7	1.6
Mississippi.....	10 502.6	.9
Tennessee.....	27 049.7	2.3
West South Central Division.....	101 008.7	8.7
Arkansas.....	10 826.9	.9
Louisiana.....	16 425.8	1.4
Oklahoma.....	9 856.9	.8
Texas.....	63 899.1	5.5
West Region.....	201 324.9	17.3
Mountain Division.....	35 821.7	3.1
Arizona.....	11 299.0	1.0
Colorado.....	12 045.8	1.0
Idaho.....	3 057.0	.3
Montana.....	1 112.0	.1
Nevada.....	1 279.3	.1
New Mexico.....	1 652.9	.1
Utah.....	4 882.9	.4
Wyoming.....	492.8	(Z)
Pacific Division.....	165 503.2	14.2
Alaska.....	834.0	.1
California.....	132 637.5	11.4
Hawaii.....	1 405.3	.1
Oregon.....	11 610.3	1.0
Washington.....	19 016.1	1.6

Z Less than half the unit shown.

Table H. 50 Largest Metropolitan Areas Ranked by Value Added by Manufacture: 1987

Geographic area	Number of employees 1,000	Value added by manufacture (mil. dol.)
New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA.....	1 393.2	81 959.2
Los Angeles-Anaheim-Riverside, CA CMSA.....	1 255.9	72 520.5
Chicago-Gary-Lake County, IL-IN-WI CMSA.....	755.4	49 773.3
San Francisco-Oakland-San Jose, CA CMSA.....	507.1	38 913.2
Detroit-Ann Arbor, MI CMSA.....	518.3	31 044.0
Boston-Lawrence-Salem, MA-NH CMSA.....	425.5	29 713.5
Philadelphia-Wilmington-Trenton, PA-DE- NJ- MD CMSA.....	486.8	28 940.8
Dallas-Fort Worth, TX CMSA.....	329.3	19 641.4
Houston-Galveston-Brazoria, TX CMSA.....	183.2	18 596.9
Cleveland-Akron-Lorain, OH CMSA.....	296.4	17 262.2
Minneapolis-St. Paul, MN-WI MSA.....	250.1	15 562.0
St. Louis, MO-IL MSA.....	221.7	14 115.0
Atlanta, GA MSA.....	200.4	13 345.7
Cincinnati-Hamilton, OH-KY-IN CMSA.....	174.4	12 831.7
Rochester, NY MSA.....	130.2	12 409.0
Milwaukee-Racine, WI CMSA.....	189.5	11 609.4
Greensboro-Winston-Salem-High Point, NC MSA.....	149.9	10 910.7
Seattle-Tacoma, WA CMSA.....	194.2	10 895.9
Baltimore, MD MSA.....	145.2	9 675.6
Kansas City, MO-KS MSA.....	115.4	9 124.0
Louisville, KY-IN MSA.....	86.1	8 320.8
Phoenix, AZ MSA.....	135.8	8 179.8
Charlotte-Gastonia-Rock Hill, NC-SC MSA.....	155.4	8 153.6
Denver-Boulder, CO CMSA.....	125.9	8 037.3
Hartford-New Britain-Middletown, CT CMSA.....	131.3	7 596.9
Columbus, OH MSA.....	98.7	7 079.1
Buffalo-Niagara Falls, NY CMSA.....	103.2	7 025.5
Richmond-Petersburg, VA MSA.....	66.4	6 833.0
Indianapolis, IN MSA.....	105.6	6 806.0
Washington, DC-MD-VA MSA.....	103.2	6 788.0
Portland-Vancouver, OR-WA CMSA.....	109.0	6 445.4
San Diego, CA MSA.....	120.0	6 426.8
Pittsburgh-Beaver Valley, PA CMSA.....	133.4	6 322.8
Dayton-Springfield, OH MSA.....	105.9	6 284.6
Grand Rapids, MI MSA.....	101.5	5 967.7
Miami-Fort Lauderdale, FL CMSA.....	132.6	5 700.2
Providence-Pawtucket-Fall River, RI-MA CMSA.....	134.4	5 493.1
Nashville-Davidson, TN MSA.....	88.6	4 989.5
Greenville-Spartanburg, SC MSA.....	99.2	4 967.5
Toledo, OH-MI MSA.....	63.2	4 925.1
Raleigh-Durham, NC MSA.....	59.4	4 728.5
Allentown-Bethlehem-Easton, PA-NJ MSA.....	78.1	4 693.8
New Orleans, LA MSA.....	43.1	4 314.7
Norfolk-Virginia Beach-Portsmouth, VA-NC MSA.....	66.0	4 285.3
Tampa-St. Petersburg-Clearwater FL MSA.....	84.5	4 139.8
Wichita, KS MSA.....	69.0	4 122.8
Memphis, TN-AR-MS MSA.....	60.3	4 114.2
Lancaster, PA MSA.....	60.0	3 883.7
Oklahoma City, OK MSA.....	48.2	3 653.4
Springfield, MA-CT MSA.....	50.2	3 542.1

Note: Flint, Michigan MSA falls within the top 50 MA's but is excluded from this table to avoid disclosing data for individual companies.

Figure 1.
Value Added by Manufacture for States

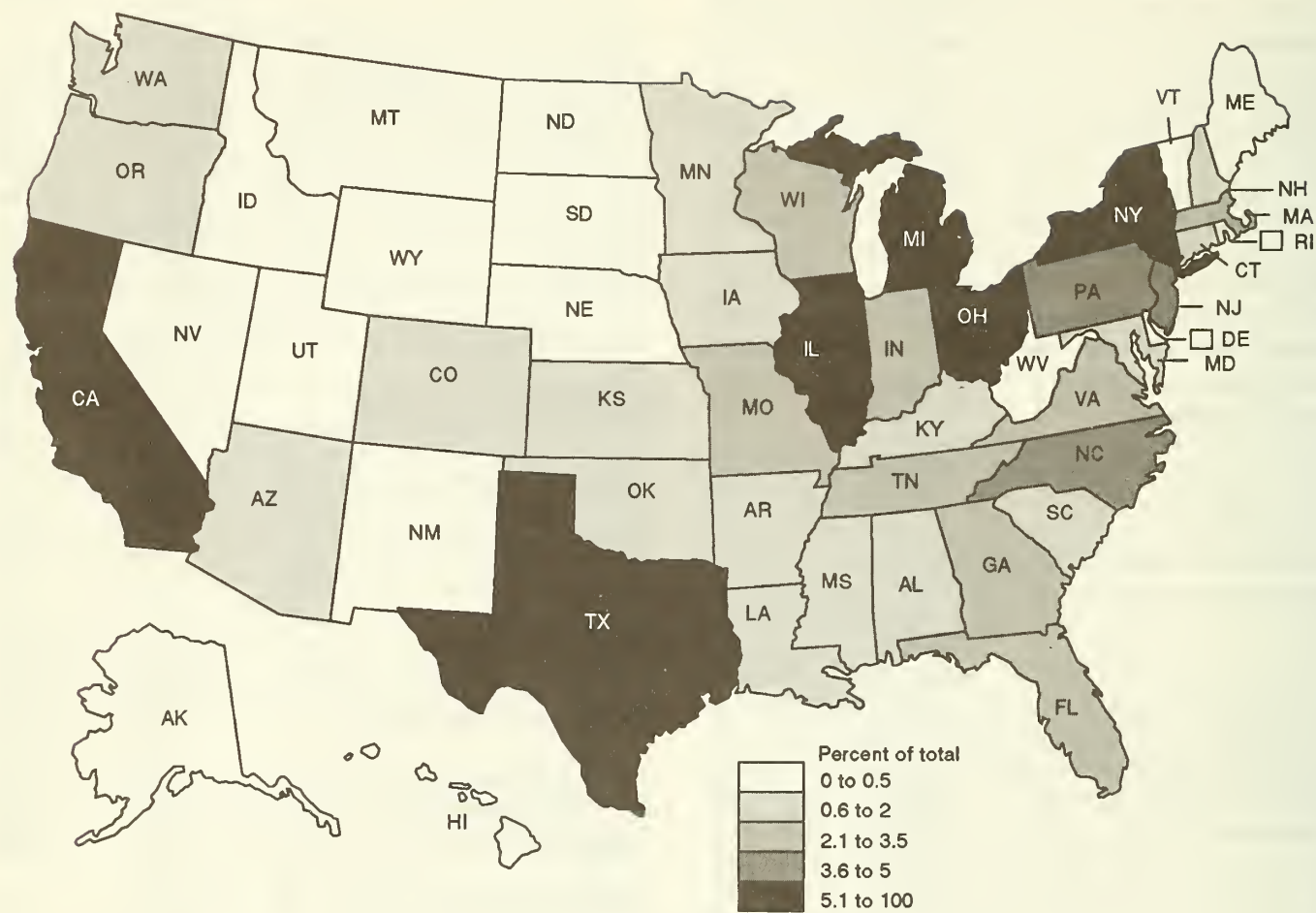
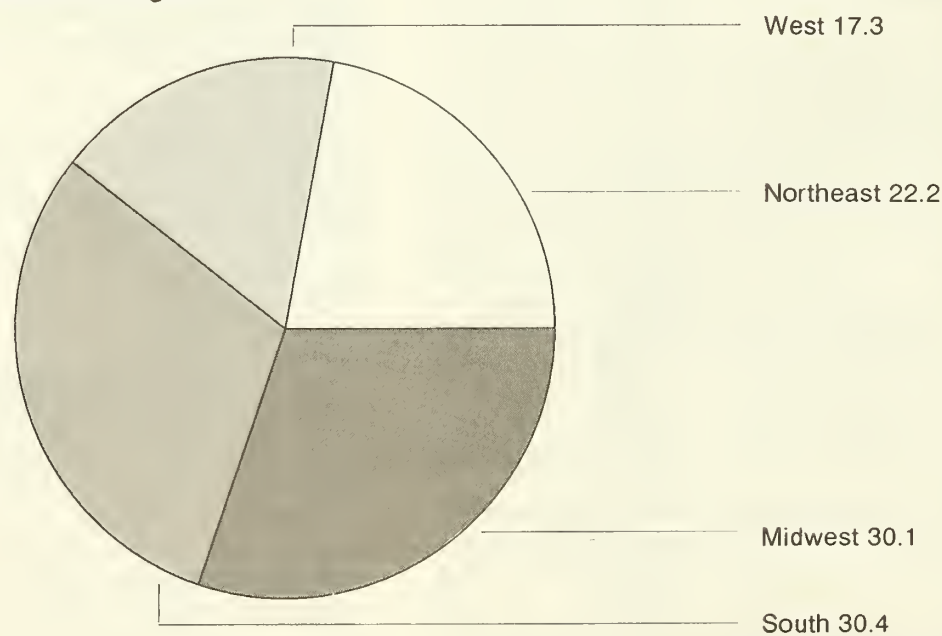


Figure 2.
Value Added by Manufacture for Regions
(Percent)



are called boroughs and census areas. Georgia, Maryland, Missouri, Nevada, and Virginia have one place or more that are independent of any county organization and constitute primary divisions of their States. These places are treated as counties. Table 4 of each State report presents total data for counties. Table 7 presents data by county for two-, three-, and four-digit industries with 450 manufacturing employees or more, except data whose inclusion would disclose data for individual companies.

Places with 450 manufacturing employees or more—The term “places” includes boroughs, towns, and villages, except boroughs in Alaska and New York. For census purposes, places are defined as incorporated municipalities with populations of at least 2,500 or unincorporated municipalities with populations of at least 25,000,

based on the 1980 population census. In addition, a few “industrial park” areas of substantial manufacturing activity but with population below the specified limits have been included in the 1987 Census of Manufactures. Table 8 of each State report presents data by places for two-, three-, and four-digit industries with 450 manufacturing employees or more except those whose inclusion would disclose data for individual companies.

Where PMSA's are defined, the MA they are part of is redesignated a consolidated metropolitan statistical area (CMSA). The appendixes describe the current MA's, PMSA's and CMSA's.

Value added by manufacture and employment for the 50 largest MSA's are shown in table H. MA's are ranked by descending order of value added by manufacture.

II. Survey Methods

13. PLANNING AND PREPARATION

General—The Census Bureau has an obligation to meet public needs for timely and reliable information while holding costs and the burden on respondents to a minimum. During the planning stages of each economic census, the advice of trade and professional associations, Federal and State Government agencies, individual companies, labor unions, and research and educational organizations is sought in an effort to reach both the users of data and the respondents who supply the basic figures. Simultaneously, the problems encountered in the previous censuses are studied, and improved methods of collection, processing, and tabulation are explored.

Mailing lists—Beginning with the 1954 Economic Censuses, the basic mailing lists have been obtained from IRS and SSA records. These records also were sampled to develop statistics for retail and service establishments with no employees. After the 1963 censuses, feasibility studies indicated that greater use could be made of the data in the IRS/SSA records. In the 1963 Economic Censuses, more than 2,000,000 firms were exempted from the filing requirement, including 120,000 small manufacturers. Instead, census-type statistics for this group were developed from IRS/SSA records. In close cooperation with IRS and SSA, specific procedures that assured confidential treatment for the use of individual tax returns were developed and set forth in Executive Order No. 10911, dated January 17, 1961, and Treasury Decision No. 6547 of the same date. The records used were business income tax returns (IRS Forms 1040C, 1065, 1120, and 1120S) and payroll tax returns (IRS Form 941). The name and address, payroll, and gross business receipts were obtained from these reports, in addition to the SIC industrial activity code

assigned by SSA. Other census statistics for these small firms were imputed using industry average ratios of the data item to payroll and sales.¹²

This procedure was repeated in the 1972, 1977, 1982, and 1987 Economic Censuses. In 1972, there was a concerted effort by the Census Bureau to improve the industry coding of the administrative records by mailing a nature-of-business inquiry to establishments whose industry codes could have been affected by the 1972 revision to the SIC Manual. Similar efforts were made in 1977, 1982, and 1987 to clarify the classification of firms which SSA had not been able to code precisely.

Content of questionnaires—As in previous censuses, the content of the 1987 questionnaires was developed in consultation with a large number of organizations and individuals, representing both the manufacturers who supply the data and those who use the statistics. Those consulted included Government agencies, individual firms, labor unions, the American Statistical Association, the American Economic Association, the American Marketing Association, the National Association of Manufacturers, and all national manufacturers' associations covering specific industries.

Many individual manufacturers and their trade associations were consulted about the content of the sections of the report forms dealing with the output of specific products. Drafts of the proposed 1987 product sections were circulated among 3,500 trade associations, manufacturing companies, and Federal statistical agencies. These draft report forms included new product detail reflecting suggestions received by the Census Bureau after the 1982 canvass. Small items (those valued at \$10 million or less) were not retained in the list unless they were needed to

¹²Amount of imputation introduced by this procedure was about 2 percent of overall totals.

assure correct classification of other products or were of strategic importance. A restriction was placed on proposals for additional detail; it was stipulated that the 1987 value of a new product category should exceed \$30 million. The manufacturers were requested to comment specifically on the availability of the data requested in their ordinary records and the appropriateness of the product descriptions and units of measure.

The thousands of comments and suggestions received in this clearance procedure and the decisions reached were forwarded to the Office of Management and Budget along with the product sections developed by the Census Bureau as a result.

A final review was made by the Office of Management and Budget with the assistance of the Advisory Council on Federal Reports. The latter organization is a group of business executives, such as controllers, economists, and market research directors representing a cross section of all industries.

14. REPORTING FORMS

A representative selection of the reporting forms used in the census is reproduced in the appendixes. The users of each form are discussed below.

General forms—These forms were used generally in the economic censuses, either as company-wide reports or as reports for establishments whose classification was not known precisely in advance of mailing.

NC-9901, Report of Organization—This company-wide report was used prior to mailing the 1987 census questionnaires to develop the directory of establishments operated by multiestablishment companies. A more detailed account of their use is given in Section 15, Mailing Lists.

NC-9920, Listing of Additional Establishments—This form was included with the economic census forms mailed to multiestablishment companies to obtain a list of establishments that were acquired after the NC-9901 was filed. These additional plants were classified, added to the NC-9901 directory list, and mailed the appropriate 1987 Economic Censuses report forms. Plants under construction but not in operation were requested to report the value of construction put in place during 1987 and the total gross book value of assets in place at the end of the year.

NC-9923, General Schedule—This questionnaire was designed to obtain information from small companies for which the industry code available in the SSA records was not precise enough to indicate which one of the standard

census questionnaires should be mailed. The information provided on Form NC-9923 was used to classify these companies by industry and tabulate their data in the appropriate census.¹³

ES-9200, Auxiliary Establishments—Many multiestablishment companies maintain separate establishments to provide centralized administrative management or other supporting services for other establishments of the same company, but not for the general public or other companies. They were asked to complete Form ES-9200 for those establishments. The form contained questions on the approximate number of employees engaged in such functions as centralized administration, research and development, warehousing, and other auxiliary activities, and on the cost of research and development work performed by these nonmanufacturing establishments. The respondent also was asked to describe the industry activity of the operating establishments serviced by the auxiliary unit reporting on Form ES-9200.

ES-9100, Company Summary Report—Each large multiestablishment company received a Form ES-9100, Company Summary Report, in addition to specific questionnaires for each establishment. The ES-9100 requested consolidated company totals for receipts, new capital expenditures, inventories, and fixed assets, which are published as part of the Census Bureau's Enterprise Statistics Program described in section 8.

Census of manufactures forms—The questionnaire reproduced in the appendix, Form MC-3609, is typical of the approximately 200 forms used for operating manufacturing establishments. Each of these forms was designed to be used for a specific group of industries. Since it is desirable to retain comparability in the annual survey of manufactures for establishments reporting in the sample, Form MA-1000 was substituted as the front sheet of the census form (e.g., MC-3609) to collect the information common to all industries. Whether or not Form MA-1000 was used, the inquiries on the 200 forms were identical except for the detailed questions on products shipped, materials used, and miscellaneous topics, such as operations performed, equipment used, and delivery of products.

Short forms—Some industries include a large number of small- to medium-sized firms that account for a significant portion of the industry's output. Usually, these firms are not so small that the limited data in the administrative-record files would meet the needs of the census. To obtain sufficient data, yet hold the reporting burden down for these smaller firms, special abbreviated short forms were designed. They obtain the key input and output statistics without the detail requested on the standard forms. A sample form is included in the appendixes.

¹³Use of Form NC-9923 is also discussed in Item 15, Mailing Lists.

Annual survey of manufactures forms—Form MA-1000 is the establishment report form used in the ASM since 1949 (with modifications). The establishment's 1986 data were imprinted on the report form before mailing, thus aiding the respondent in following the instructions for the census. Item 11-A, "value of products shipped and other receipts," on Form MA-1000 corresponds to item 18 on the census forms, such as MC-3609.

In years between censuses, the ASM collects data for broad classes of products; whereas, every 5 years, in the census, Item 18 calls for information on individual product shipments.

Other related forms—Form CB 5007, Census of Distributive Trades Electrical Goods, which is reproduced in the appendixes, is typical of the several forms used for wholesale establishments in the census of business. Some manufacturers operate their own wholesale establishments which the Census Bureau classifies as "manufacturers sales branches and sales offices." The wholesale forms differed only in the kinds of products sold as listed in item 12. Item 18 provides the information needed to classify the establishment as a sales branch or sales office.

15. MAILING LISTS

General—As discussed in section 11, the list of respondents for 1987 was obtained from IRS/SSA records. Since the IRS/SSA lists consist essentially of the names and addresses of companies rather than establishments¹⁴, it was necessary to follow separate procedures for multiestablishment companies (those operating at more than one location).

The prec canvass—Multiestablishment companies were required to file at least one establishment report¹⁵ covering each location. In order to mail the appropriate questionnaires, it was necessary to determine the type of activity at each location operated by multiestablishment companies. The Census Bureau has conducted an annual update of its directory of establishments operated by large companies, to which Report of Company Organization¹⁶ (Form NC-9901) is mailed each year.

This form consists of a report on company affiliation and a list of the domestic establishments operated by the company. The company's establishments, as identified in

census records, are prelisted and the respondents are asked to correct this list. They also are asked to describe new establishments not prelisted and indicate their size.

Large multiestablishment companies are segregated for special handling because of possible overlap and duplication. Many of these companies are active in retail and wholesale trade, as well as in manufacturing. The reporting instructions are reviewed in discussions with officials of the accounting departments of many of these firms to make certain that the procedure is understood and the establishments are properly described on Form NC-9901.

Single-establishment companies—The mailing lists for single-establishment companies (those operating at only one location) were developed from an initial control file assembled from IRS and SSA records. Out-of-scope companies (those whose activities were not to be surveyed in the economic censuses) and those identified as multiestablishments in the multiestablishment directory were removed.

The final step was to identify the small companies which were not to be mailed forms because census-type statistics were to be developed from administrative records. The remaining records constituted the mailing lists for single-establishment companies.

General schedule—While these lists generally contained adequate industry information to determine the proper form for mailing, a number of the records did not have precise industry information associated with them. Form NC-9923, General Schedule, which is reproduced in the appendixes, was mailed to these companies. Since it was assumed that these companies were quite small, only the dollar value of business was requested. The completed reports were coded and included in the tabulations. If Form NC-9923 indicated that the company was actually large, it was later requested to file one or more of the appropriate standard questionnaires.

16. COVERAGE AND ACCURACY

Since the list of companies obtained from IRS and SSA records was considered to be complete, no field coverage check was conducted. The prec canvass and other special procedures for multiestablishment companies described in Section 15, Mailing Lists, and Section 18, Data Collection, were designed to secure complete lists of establishments; thereby amplifying the IRS/SSA company list. Control totals, in terms of employment and payroll of multiestablishment companies, also were used to verify the completeness of establishment coverage.

It was possible to compare statistics tabulated from the census of manufactures with the Census Bureau's Current Industrial Reports series, or with data originating with other agencies and, thus provide a further confirmation of completeness and accuracy. These figures range from employment and wage totals compiled by the Bureau of Labor

¹⁴SSA records for multiunit companies identify "reporting units," which in many instances corresponds to census establishments. Differences are such that it was found necessary to obtain up-to-date lists of establishments as described in this section. Also, the Census Bureau concept of a company differs from the IRS/SSA definition, since the census company includes all establishments under common ownership or control. In the IRS/SSA records, subsidiary corporations are often treated as independent companies.

¹⁵If two or more distinct lines of activity were carried on at one location, separate reports were obtained under some circumstances. (For a complete discussion, see section 11).

¹⁶This form is reproduced in the appendixes.

Statistics to detailed commodity output figures published by the IRS, the Fish and Wildlife Service, and the Department of Agriculture. In the industry reports, differences between the census of manufactures and other statistics are explained wherever possible. Census of manufactures comparability with broad measures such as national income, new capital expenditures, and production indexes are discussed elsewhere in this introduction. The Census Bureau's other procedures designed to improve the accuracy of the census data are discussed above in the items on data collection and processing. A discussion of the valuation of intracompany shipments by multiestablishment companies is included in section 22.

17. GEOGRAPHIC CODING

Accurate and complete information on the physical location of each establishment is required in order to tabulate the census data by metropolitan statistical areas, counties, and places. As in previous censuses, the post office address and ZIP Code of the establishment were not always accepted as defining the physical location, but respondents were required to describe the actual location in terms of street address; city, town, or village; county; and State. For establishments located in rural territory, the name or number of the nearest highway was requested and the distance from the nearest town or other urban place.

In censuses prior to 1963, clerks assigned geographic code numbers to each establishment based on the description furnished by the respondent. This process was slow and required careful verification. Beginning with 1963, a computerized system was developed which assigned an area code number and a prefix symbol to the mailing address before the questionnaires were mailed. The prefix symbol indicated whether or not the mailing address was clearly acceptable as describing the physical location. If there was any question about its acceptability, the respondent's description was later carefully reviewed after the questionnaire was received. The assignment of tentative code numbers by the computer was based on extensive reference files containing nearly a million business names and addresses.

18. DATA COLLECTION

Although the greater use of administrative records in 1987 substantially reduced the number of companies canvassed directly, there remained more than 2 million which were required to file, including about 205,000 manufacturers. Small manufacturers, for whom the administrative records sufficed, numbered about 155,000. The assembly of several hundred different questionnaires into mailing packages was an extensive operation.

Most of the 1987 questionnaires were mailed by late December 1987 with a due date of February 15, 1988. The collection phase was completed by late August 1988.

Companies which did not return their questionnaires by the due date had to be reminded that their returns were overdue. In all, there were five mail follow-ups. Telephone calls were made to the large companies to help with reporting problems and to request that the forms be completed and returned.

Estimates based on data from administrative records were included in the census tabulations for the relatively small number which had not responded by the closeout date in August 1988. Thus, reported or estimated data for all companies and establishments in the original mailing list (except those determined to be inactive during 1987) were included in the final statistical results. A special effort was made to obtain actual returns from all large firms, so that the dollar volume of business represented by proxy returns was relatively small.

19. DATA PROCESSING

General—The editing,¹⁷ coding, and tabulation of data for the 5 million establishments represented in the 1987 Economic Censuses was a complicated task. Automated data processing and other advanced techniques were used in all phases.

The questionnaires were mailed from and returned to the Census Bureau Office at Jeffersonville, IN, where most noncomputer (that is, clerical) processing operations were performed. Data were placed on a key-to-disc system, and the encoded data sent to Washington, DC, on a high-speed transmission system. The Washington, DC, staff handled computer operations and all operations in connection with the use of IRS and SSA records.

Preliminary processing—After they were checked in, the questionnaires were keyed and subjected to simple edits to see that they conformed to certain minimum requirements before further processing. For multiestablishment companies, the sums of employment and payroll reported on its establishments questionnaires were compared with the control totals received on IRS Form 941. Questionnaires received from single-establishment firms were reviewed to ascertain whether they had become multiestablishments through merger or acquisition. Questions arising in these operations were resolved by writing or telephoning the respondents. Complex problems were referred to the Washington, DC, professional staff.

Computer editing—The review for consistency among data items and completeness was done on the computer. Average values and tolerance limits for key operating

¹⁷In data processing, the term "editing" means the review of information collected on questionnaires or from other sources with the objective of locating and correcting erroneous entries.

ratios (for example, cost of materials per dollar of shipments, payroll per employee, production-worker wages per hour, etc.) played a fundamental role in the editing process. More than half of all four-digit SIC industries had one data cell or more changed by more than 5 percent as a result of the application of these programs.

III. Comments on Statistical Measures and Tables

Explanations and definitions of the various measures of activity for which statistics are compiled in the census of manufactures are presented in the appendixes. In the following text, the limitations and other characteristics of some of these measures are discussed, the content of the statistical tables is described, and comparisons with other statistical series are presented.

20. EMPLOYMENT AND PAYROLLS IN AUXILIARIES

In the industry statistics chapters, the data on employment and payroll are limited to operating manufacturing establishments. In the summary tables and the area reports, the employment and payroll of auxiliaries are included as well. The report filed for auxiliaries requested a description of the activity of the establishments that they serviced. However, the auxiliaries were coded only to the two-digit major group of establishments they served, whereas, the operating establishments were coded to a four-digit manufacturing industry. In most of the tables with industry detail, the auxiliaries are shown as a separate industry group, but statistics for them by two-digit industry appear in the General Summary tables. As indicated in table I, the relative importance of auxiliaries has increased substantially in recent years because of a tendency to centralize functions formerly performed in manufacturing plants. Such functions include accounting (particularly where computerized), warehousing, repair services, and other miscellaneous activities.

A detailed description of the step-by-step processing procedures will appear in the Census Bureau publication, History of the 1987 Economic Census. This volume describes the procedures followed in both the centralized overall processing and in the individual census such as manufactures.

21. MATERIALS CONSUMED

Every establishment was requested to report the total cost of materials. In addition, quantity and cost information was collected for approximately 1,000 specific materials. About 350 of these were "complete coverage" materials; i.e., every industry that consumed appreciable quantities of the material was canvassed so the data would aggregate to at least 90 percent of manufacturing consumption. For the remaining materials, information on consumption was obtained only in those industries in which the materials were important inputs. Detailed consumption information was collected in item 17, the standard material inquiry; and in a few instances in a special inquiry. The resulting statistics are presented in table 7 of the industry series reports.

Because American industry uses an enormous variety of materials, the choice of materials for which "complete coverage" consumption data (90 percent or higher) were obtained had to be strictly limited. The selection of a particular material for such coverage was based on the following criteria:

- 1. The importance as measured by the total value of U.S. consumption of the material
- 2. The percentage of total consumption accounted for by manufacturing establishments
- 3. The availability of consumption information from manufacturers' records
- 4. Other factors, such as the strategic importance of the material or the availability of historical data on the use of the material

Table I. Employment in Auxiliaries and Operating Manufacturing Plants: 1987 and Earlier Census Years

Year	Operating manufacturing establishments		Auxiliaries		
	Employees (1,000)	Percent change from previous census year	Employees (1,000)	Percent change from previous census year	Percent of total employment
1987.....	17 717	-6	1 234	-3.3	6.5
1982.....	17 818	-3.8	1 276	+18.8	6.7
1977.....	18 516	+2.7	1 074	+8.0	5.5
1972.....	18 032	-2.5	994	+19.8	5.2
1967.....	18 492	+14.0	830	+14.3	4.3
1963.....	16 235	+5.3	726	+20.6	4.3
1958.....	15 423	-1.4	602	¹ +32.9	3.8
1954.....	15 645	(NA)	453	(NA)	2.8

Source: Census of Manufactures.

(NA) Not available.

¹Apparent increase from 1954 to 1958 is believed to be somewhat overstated, because coverage of auxiliaries was more complete in the 1958 census.

The "limited coverage" materials were chosen, not only because they constituted important inputs for particular industries, but also because they frequently provided information necessary to classify plants by SIC industry. In using the detailed data on materials consumed which appear in table 7 in the industry series reports, the following limitations should be noted:

1. Materials were reported for the establishment as a whole and no attempt was made to ascertain how much of the material was used in each of various products. Thus, the industry totals appearing in Table 7 include consumption in secondary products, as well as primary products of the industry. The extent of secondary production in each industry is measured by its specialization and coverage ratios shown in table 5b of the industry series reports.
2. Special attention should be paid to the codes ending in "000" and captioned "materials, parts, containers, and supplies, n.s.k." The amounts appearing on these lines are totals imputed for
 - a. Establishments whose statistics were developed from administrative records
 - b. Totals for establishments which returned report forms but failed to report their consumption in specific terms.

Thus, for most industries, the data for a specific material are understated. A judgment on the statistical significance of the understatement may be made from the ratio of the value shown for the "n.s.k." (code 000) to the total of materials, components, parts, containers, and supplies for the industry.

3. Establishments consuming less than a specified amount of material were not requested to report consumption of the material separately. For the majority of individual materials, the minimum amount was \$10,000. The use of this cutoff is not believed to have had a significant effect on the totals.
4. A total of "all other materials" code 970099 was collected on most forms and is published for each industry.

22. VALUE OF SHIPMENTS

Value of shipments of multiestablishment companies—Except for a few industries, the respondents were instructed to report net selling values, f.o.b. plant, after discounts and allowances and excluding freight charges and excise taxes. Multiestablishment companies were instructed to report for each establishment as if it were a separate economic unit and, in particular, to report interplant transfers at their full economic value. Full economic value is defined as not only the cost of production but also

a reasonable proportion of company overhead and profits. Generally, there is no advertising or other selling cost assigned by companies to interplant transfers, so it would be expected that the value per unit of such transfers would be less than that for commercial sales. To assure consistency in the valuation as the interplant transfer moved through the company, the plant receiving the transferred good was instructed to include it in its cost of materials at the same value as at the shipping point, plus the cost of freight and other handling charges.

If the goods were transferred to sales branches, or sold through separate sales offices, the "f.o.b. plant" instruction implies that the value is somewhat lower than the final invoice value, because the cost of selling (mainly the cost of operating the sales branch or office) is excluded.

However, there is reason to believe that these instructions were not followed uniformly by all companies. In a recordkeeping practice study of 54 multiestablishment companies conducted a few years ago, it was found that about half of them had reported interplant transfers of semifinished products at commercial or market prices, which tend to be somewhat higher than the "cost plus overhead and profit" requested in the census instructions. Where finished products were transferred to separate selling organizations, half of the companies interviewed valued the products leaving the manufacturing plant at their final or invoice price, or somewhat higher than the requested "f.o.b. plant" transfer value. It appears from this study and other observations that the value of shipments of products reported by multiunit companies tended to be transferred to establishments of the same company, separate quantity and value figures were requested on the amount transferred and the amount sold outside the company. Data on these shipments, the unit value of which tends to be different from the unit value for shipments outside the company, are presented separately in table 6a in the industry reports.

Individual products—In the 1987 census program, information was collected on the output of approximately 11,000 individual product items.¹⁸ A product, as used in the census of manufactures, is the finest level of detail for which output information was requested. It is not necessarily synonymous with the term product as used in the marketing sense. In some cases, it may be much more detailed and, in other cases, it is more aggregative. For example, there is a long list of pharmaceutical preparations but a single item for all canned meats. If detailed production figures were available from other Government sources or reliable private surveys, it was not considered necessary to request extensive detail in the census.

Some 6,600 of the product items were listed separately on the 1987 census report forms. Data for the remaining 4,400 products were obtained monthly, quarterly, or annually in commodity surveys of the Current Industrial Reports

¹⁸See 1987 Census of Manufactures and Mineral Industries, MC87-R-1, *Numerical List of Manufactured and Mineral Products*.

program of the Bureau of the Census. Totals for the year 1987 for these items compiled in the commodity surveys are shown in table 6a-2, in the industry reports. On the 1987 census forms, only an overall control total or "tieline" was obtained.

Typically, both quantity and value of shipments were collected. However, physical quantity measures are not meaningful for some product lines, and for these, only value of shipments was collected. If a product was used to a large degree in the fabrication of other products within the same establishment in which it was produced, total quantities produced and often the quantities consumed were collected. Information on production, as well as shipments, was collected for products for which there are significant differences between the two because of wide fluctuations in finished goods inventories. Alternate measures of output of products, such as value of work done for products with long production cycles, were used as appropriate and feasible.

Classes of products—The individual products were aggregated into classes of products which were, in turn, grouped into the primary products of each industry. In the code structure, a seven-digit number is assigned to the individual product, a five-digit code to the class of product, and a four-digit code to the total primary products in an industry. (See section 11 for application of coding structure to the assignment of SIC codes for establishments.)

The 11,000 product items in the 1987 census (including products from the Current Industrial Reports program) were grouped into approximately 1,500 separate product classes. General similarity was the basis for the product class combinations within each four-digit industry; i.e., kind or use of products, the manufacturing processes, type of markets, or materials used. The economic significance of the class also was taken into account; residual products of an industry were grouped when the dollar value of the products did not warrant separate classes.

Since preserving confidentiality of the data of respondent companies is a determinant of the amount of detail that can be published, the larger number of respondents included in the product-class shipments totals permits many more cross tabulations than do the seven-digit products. In the industry report series, product classes by State appear in table 6b.

It is possible to classify individual establishments not only by four-digit industry, but also by the largest class of products they produce within that industry. Table 5a of the industry reports provides finer industry-type general statistics for establishments classified according to the degree to which they specialize in producing a specific class of products.

The Census Bureau developed the class of product concept in the compilation of World War II production statistics and incorporated this technique into the 1947 Census of Manufactures. Product classes were used to collect product information in the first ASM conducted in

1949. The product classes tend to be redefined more frequently than the SIC where they are based in order to keep abreast of the growth and decline of products.

Effect of use of administrative records on product data—As noted elsewhere in this Introduction, 155,000 small manufacturers were not mailed report forms and most of their detail was imputed based on limited information in IRS and SSA administrative records. All of the value of products of these small establishments were coded only to the four-digit products of the industry in which they were classified. These product shipments are uniquely identified in table 6a of the industry reports. Also, uniquely identified are product shipments of reporting companies which were described too generally to code below the four-digit level. Frequently, these were residuals in the company's record which the company felt it could not break down further. Table J, summarized by two-digit group, reflects the importance of these n.s.k., product shipments. They tend to be moderate in size except in lumber, furniture, and printing (SIC 24, 25, and 27). The n.s.k., of the respondents tends to be larger than that of the administrative records.

One factor tends to reduce the value of products, n.s.k., attributed to administrative-record companies that affects table J. In some four-digit industries, there is only one product category (an example is Industry 3273, Ready-Mixed Concrete). Administrative-record estimates for these products were treated as specific information and not tabulated as "n.s.k." headings.

In using the data for the specific seven-digit products shown in table 6a of the industry reports the importance of the n.s.k., has to be considered. The shipments of individual products tend to be understated somewhat in proportion to the size of the n.s.k. Census-to-census comparison of seven-digit products should be made with caution if there has been a significant increase or decrease in the importance of the n.s.k.

23. DUPLICATION IN COST OF MATERIALS AND VALUE OF SHIPMENTS

The aggregates of the cost of materials and value of shipments figures for industry groups and all manufacturing industries, include large amounts of duplication since the products of some industries are used as materials by others. With some important exceptions, such as Industry 3312, Steel Works, Blast Furnaces, and Rolling Mills, this duplication is not significant within individual four-digit industries. However, it is significant at the two- and three-digit industry levels because these group totals often include industries which are successive stages in the production of a finished manufactured product. Examples are the addition of flour mills to bakeries in the total value of shipments of SIC Major Group 20 and the addition of pulp mills to paper mills in major group 26. Economists have estimated that the value of manufactured products

exclusive of such duplication (the value of finished manufactures) tends to approximate two-thirds of the total value of shipments reported in the census of manufactures.

Table J. Value of Products, Not Specified by Kind: 1987 and 1982

(Million dollars)

Major group	Total value of product shipments		Products not specified by kind											
			Total		Large companies		Small companies		Percent attributed to—					
	1987	1982							Total		Large companies		Small companies	
	1987	1982	1987	1982	1987	1982	1987	1982	1987	1982	1987	1982	1987	1982
Total ..	2 329 796.5	1 863 103.2	169 582.5	103 186.9	120 449.3	74 397.5	49 133.2	28 789.4	7.3	5.5	5.2	4.0	2.1	1.6
20	305 288.1	259 465.4	19 172.4	19 020.4	13 407.0	15 678.8	5 765.4	3 341.6	6.3	7.3	4.4	6.0	1.9	1.3
21	20 137.3	15 372.6	35.3	11.1	14.5	4.5	20.8	6.6	.2	.1	.1	(Z)	.1	(Z)
22	61 417.7	46 586.3	2 152.5	2 047.4	1 080.3	1 618.5	1 072.2	428.9	3.5	4.4	1.8	3.5	1.7	.9
23	43 335.5	51 392.7	3 127.6	4 784.6	1 888.0	3 688.9	1 239.6	1 095.7	7.2	9.3	4.4	7.2	2.9	2.1
24	67 020.5	40 864.6	12 788.7	7 307.7	9 559.0	5 047.4	3 229.7	2 260.3	19.1	17.9	14.3	12.4	4.8	5.5
25	35 882.9	23 266.5	5 229.8	2 673.1	4 079.0	2 074.5	1 150.8	598.6	14.6	11.5	11.4	8.9	3.2	2.6
26	105 399.9	77 067.3	5 486.8	2 734.6	3 908.2	2 115.0	1 578.6	619.6	5.2	3.6	3.7	2.7	1.5	.8
27	131 099.9	83 523.5	23 414.0	13 543.7	18 281.4	9 663.9	5 132.6	3 880.6	17.9	16.2	13.9	11.6	3.9	4.7
28	214 620.6	161 192.7	12 765.7	6 613.7	8 477.7	5 053.8	4 288.0	1 559.9	6.0	4.1	4.0	3.1	2.0	1.0
29	125 838.4	200 307.5	3 777.3	2 396.1	3 437.3	2 341.1	340.0	54.0	3.0	1.2	2.7	1.2	.3	(Z)
30	85 389.4	54 881.2	12 446.9	4 901.8	10 264.8	3 393.0	2 182.1	1 508.8	14.6	8.9	12.0	6.2	2.6	2.8
31	8 637.5	9 014.4	471.4	580.0	118.7	455.2	352.7	124.8	5.5	6.4	1.4	5.1	4.1	1.4
32	58 030.2	42 976.4	4 444.1	2 164.1	2 623.2	955.3	1 820.9	1 208.8	7.7	5.0	4.5	2.2	3.1	2.8
33	116 062.6	100 560.1	4 525.2	1 545.7	3 217.9	1 034.1	1 307.3	511.6	3.9	1.5	2.8	1.0	1.1	.5
34	138 731.9	114 623.0	15 519.6	7 189.4	11 196.4	4 554.4	4 323.2	2 635.0	11.2	6.3	8.1	4.0	3.1	2.3
35	199 849.2	176 581.8	16 613.8	11 416.6	10 532.3	7 063.0	6 081.5	4 353.6	8.3	6.5	5.3	4.0	3.0	2.5
36	162 923.7	140 339.2	7 949.8	6 255.6	4 844.4	4 569.7	3 105.4	1 685.9	4.9	4.5	3.0	3.3	1.9	1.2
37	322 090.6	191 857.8	9 233.3	2 749.4	6 907.4	1 724.1	2 325.9	1 025.3	2.9	1.4	2.1	.9	.7	.5
38	98 732.5	47 979.5	5 017.8	2 318.2	2 798.4	1 441.4	2 219.4	876.8	5.1	4.8	2.8	3.0	2.2	1.8
39	29 308.1	25 250.7	5 410.5	2 934.7	3 813.4	1 921.7	1 597.1	1 013.0	18.5	11.6	13.0	7.6	5.4	4.0

Note: Values are product shipments, respective of the industry in which the products were made and exclusive of miscellaneous receipts and, therefore, differ from industry group totals shown in General Summary tables. However, products primary to more than one product group are classified based on the industry in which they were made. Data for some product groups may differ slightly from the data collected in order to avoid disclosing data for individual companies which have previously been withheld from tables 6a of the 1987 and 1982 Censuses of Manufactures, Industry Series.

Because the amount of duplication of the cost of materials in the value of products figures cannot be measured with any degree of precision, caution is urged in the use of the value of shipments totals at the two- and three-digit industry group levels.

Even where there is no significant amount of duplication within an industry group, value of shipments figures are not the best measures of the relative economic importance of individual manufacturing industries or geographic areas. There are wide variations in the ratio of materials, labor, and other processing costs to value of shipments; both among industries and within the same industry. The manufacturing process contributes only a small amount to the sales value of some products; but a large amount to the final value of others. Value added by manufacture is a better measure of the net contribution of an industry to the nation's overall output.

24. VALUE ADDED BY MANUFACTURE

General—The first step in the calculation of value added is the conversion of the value of shipments (including resales and miscellaneous receipts) to value of production by adding the ending inventory of finished goods and work-in-process inventories and subtracting the

beginning inventory. The cost of materials (including materials, supplies, fuel, electric energy, cost of resales, and cost of contract work) is then subtracted from this value of production to obtain value added.¹⁹

Value added avoids the duplication in the value of shipments figure which results from the inclusion of the shipments of establishments producing materials and components, along with the shipments of establishments producing finished products. It does not exclude the cost of services purchased from other business firms, as does the concept of value added, used in the national income accounts.²⁰ Nevertheless, it is considered to be the best value measure available in census data for comparing the relative economic importance of manufacturing among industries and geographic areas.

¹⁹For a few industries (i.e., ship building) where value of work done is substituted for value of shipments, no adjustment is made for change in inventories. In a few industries where value of production is collected, inventory adjustment is made only on the basis of change in work-in-process inventories.

²⁰Collection of data on cost of purchased business services at plant level presents many problems. Advertising by multiunit companies is frequently charged at the company level and cost either not allocated to plants or, if allocated, are only included as part of a broader company overhead category. National income data, on the other hand, are compiled, in part, from company rather than plant data, such as IRS statistics of income in which advertising is presented as a separate cost item based on company reports.

Gross national product and value added—The National income and product accounts, prepared by the Commerce Department's Bureau of Economic Analysis (BEA), include estimates of the gross product originating in manufacturing. As explained below, this measure is not completely comparable to census value added.

Gross product originating (GPO) in manufacturing is that industry's share of the Nation's output of goods and services valued at market prices before deductions for depreciation charges. It is calculated either as the sum of income payments (e.g., wages, profits, and interest) and other costs (e.g., depreciation and indirect business taxes) or as the difference between the value of production (shipments plus change in inventories) and cost of materials and services consumed. Census value added, on the other hand, is calculated as the difference between the value of production and the cost of materials consumed; the cost of purchased services is not removed. GPO differs from the census value added not only because the BEA measure excludes purchased services, but also because it includes sales and excise and other indirect business taxes other than property taxes, and reflects inventory change valued at replacement cost. These differences arise because census does not collect data for all purchased services, defines shipments to exclude excise and sales taxes, and calculates inventory change using the data as reported by the manufacturer. (BEA converts inventories to a replacement cost valuation to make them

consistent with the definition of gross national product. The difference between the change in reported "book value" and the change in replacement cost values is the inventory valuation adjustment (IVA)).

Of these three differences, the GPO measure provides separate estimates of only the taxes and the IVA. Estimates of purchased services are not available because BEA calculates GPO using the sum of income payments and costs method. As a result, a direct reconciliation of the GPO and census value added measures is not possible. Furthermore, the source data used by BEA to estimate GPO give rise to statistical differences between the two series, especially at the more detailed industry levels. First, some of the income and cost components of GPO are available only on a consolidated company-industry basis and must be converted to an establishment-industry basis. Profits and depreciation, which are based on tabulation of income tax returns, are converted using information from the Census Bureau's Census-IRS link project. However, because current data from this project are not available and because of problems with the conversion procedures used by BEA, the resulting establishment industry distributions may have significant errors, especially at the two-digit SIC industry levels. For interest, another component of GPO derived from tax return information, no such conversion is attempted. A second statistical difference, which is a major factor at the two-digit industry levels, is the industry

Table K. Gross Product Originating and Value Added by Selected Major Groups: 1987 and 1982
[Billion dollars]

SIC code	Major group	Gross product originating ¹		Value added		Gross product originating as percent of value added	
		1987	1982	1987	1982	1987	1982
	Manufacturing.....	853.6	630.6	1 165.7	824.1	73	77
	Nondurable goods.....	373.6	266.5	522.9	361.2	71	74
20	Food and kindred products	74.0	59.0	121.6	88.4	61	67
21	Tobacco manufactures.....	15.5	8.4	14.3	² 9.0	108	93
22	Textile mill products	20.0	15.3	25.7	18.6	78	82
23	Apparel and other fabricated textile products.....	22.5	18.3	32.5	26.0	69	70
26	Paper and allied products	39.5	25.4	50.5	33.4	69	76
27	Printing and publishing	58.2	37.3	90.2	54.4	65	69
28	Chemicals and allied products	77.1	55.5	120.8	77.3	64	72
29	Petroleum and coal products.....	33.6	24.2	18.5	22.1	182	110
30	Rubber and miscellaneous plastics products.....	30.0	19.0	44.4	27.2	68	70
31	Leather and leather products	3.3	4.2	4.4	4.8	75	88
	Durable goods	480.0	364.0	643.0	463.0	75	79
24	Lumber and wood products.....	27.7	15.2	28.7	15.4	97	99
25	Furniture and fixtures	15.0	9.1	20.3	12.8	74	71
32	Stone, clay, and glass products	27.5	17.4	33.4	23.0	82	76
33	Primary metal industries.....	36.4	35.7	46.1	33.3	79	107
34	Fabricated metal products.....	60.3	46.6	75.0	58.9	80	79
35	Machinery, except electrical	81.2	79.3	118.2	102.3	69	78
36	Electronic and other electric equipment	85.0	64.0	95.8	(NA)	89	(NA)
371	Motor vehicles and equipment	49.9	31.2	66.4	34.3	75	91
372-9	Other transportation equipment	56.0	32.2	70.7	50.6	79	64
38	Instruments	27.0	22.7	71.0	(NA)	38	(NA)
39	Miscellaneous manufacturing industries	13.9	10.5	17.5	14.1	79	74

¹Source: Manufacturing GPO appears in the *Survey of Current Business*, July 1988. Industry group detail is not published but is available on request from BEA.

²Establishments in this industry reported value of production rather than value of shipments. Consequently, the formula for computing adjusted value added by manufacture was modified to include only changes in work-in-process between beginning- and end-of-year inventories.

classification underlying the estimates of wages and salaries. The BEA uses Bureau of Labor Statistics (BLS) tabulations of wages paid to employees covered by unemployment insurance, while census wages and salaries are those collected by census. While both systems use the SIC as the basis of the classification, differences arise because Census and BLS use different information upon which to base the classification of individual establishments. Finally, the BEA measure includes the GPO of nonemployer firms. These firms, which are not covered in the census of manufactures, are usually very small and do not constitute a significant share of GPO except in the lumber and wood products industry.

Table K provides a comparison of 1982 and 1987 for the above two measures by the two-digit SIC industry. Table L provides a year-by-year comparison of all manufacturing GPO and census value added.

25. CAPITAL EXPENDITURES AND GROSS ASSETS

Capital expenditures—The manufacturers were instructed to report expenditures of the type chargeable to fixed assets accounts for which depreciation reserves are normally maintained. Actual capital outlays during the year were requested, not the final value of equipment put in place or structures completed during the year.

The Census Bureau estimates of capital expenditures tend to be lower than those published in the quarterly survey of expenditures for plant and equipment. In addition to normal sampling variation, a major source of differences rests in the scope of the two series. Census of Manufactures data relate only to manufacturing establishments; whereas, the quarterly survey of expenditures for plant and equipment includes all establishments of manufacturing companies, nonmanufacturing as well as manufacturing, but excludes manufacturing establishments of companies that they have classified as chiefly nonmanufacturing. This difference is particularly important in the petroleum industry where company expenditures for developing new wells and new distribution facilities are ordinarily much larger than their capital expenditures at refineries. The two sets of data for recent years are shown in tables M and N.

Gross value of fixed assets—In addition to reporting capital expenditures during the year, the manufacturers were requested to report the original cost value of fixed assets (structures and machinery and equipment) in place at the end of the year, along with depreciation and retirements during the year. This series, however, is based on reports filed in the ASM sample. It is conceptually comparable with the capital expenditures data. The census gross assets series will differ from similar series based on company level reports; i.e., those appearing in the *IRS Statistics of Income* and the Census Bureau's *Quarterly Financial Report of Corporations*. Since the census assets series also is based on sample estimates from the ASM, it is subject to a sampling error. (See the appendixes for complete definitions of terms.)

Table L. **Gross Product Originating and Value Added by Manufacture: 1987 and Earlier Years**

[Billion dollars]

Year	Gross product originating ¹	Value added	Gross product originating as percent of value added
1987.....	872.1	1 165.7	75
1986.....	832.4	1 035.4	80
1985.....	789.5	1 000.1	79
1984.....	771.9	983.2	79
1983.....	683.2	882.0	77
1982.....	634.6	824.1	77
1981.....	643.1	837.5	77
1980.....	581.0	773.8	75
1979.....	561.8	747.5	75
1978.....	518.8	657.4	79
1977.....	465.3	585.2	80
1976.....	410.4	511.5	80
1975.....	358.2	442.5	81
1974.....	340.7	452.5	75
1973.....	326.1	405.6	80
1972.....	292.5	354.0	83
1971.....	265.6	314.1	85
1970.....	252.2	300.2	84
1969.....	256.7	304.4	84
1968.....	242.8	285.1	85
1967.....	222.3	262.0	85
1966.....	216.6	250.9	86
1965.....	197.7	226.9	87
1964.....	179.4	206.2	87
1963.....	167.4	192.1	87
1962.....	157.9	179.1	88
1961.....	144.4	164.3	88
1960.....	143.8	164.0	88
1959.....	141.3	161.5	87
1958.....	123.8	141.5	87
1957.....	131.4	147.8	89
1956.....	126.8	144.9	88
1954.....	106.4	117.0	91
1947.....	66.2	² 74.3	89

¹These estimates are consistent with the estimates shown in table B, but they are not consistent with the estimates shown in table C. See table B for an explanation.

²Value added for 1947 is unadjusted for changes in inventory.

26. INVENTORIES

The value of end-of-year inventories held by each manufacturing establishment was obtained for each year. A measure of the changes in inventories from the beginning to the end of each year is essential to the conversion of value of shipments during the year to value of production, and, therefore, to the calculation of value added. The ratios of inventories to shipments at different times also are used in analysis of trends and business-cycle movements. For the best use of all of these measures, the inventories should be valued in the same prices as the shipments. Census inventory statistics have some limitations in these uses.

Effective with the 1982 Economic Censuses, respondents were asked to report their end-of-year inventories on

Table M. Expenditures for New Plant and Equipment—Plant and Equipment Expenditures Survey and Census: 1987 and Earlier Years

[Billion dollars]

Year	Plant and Equipment Expenditures Survey	Census (census of manufactures and ASM)	Census as percent of Plant and Equipment Expenditures Survey
1987.....	141.0	78.6	54
1986.....	138.0	76.4	55
1985.....	152.9	83.1	54
1984.....	139.6	75.2	54
1983.....	117.4	62.2	53
1982.....	124.0	74.6	60
1981.....	128.7	78.6	61
1980.....	112.6	70.1	62
1979.....	95.1	61.5	65
1978.....	78.1	55.2	71
1977.....	67.5	47.5	70
1976.....	58.5	40.5	69
1975.....	53.7	37.3	69
1974.....	52.5	35.7	68
1973.....	42.4	27.0	64
1972.....	35.4	24.1	69
1971.....	33.6	20.9	62
1970.....	37.0	22.2	60
1969.....	36.3	22.3	61
1968.....	32.3	20.6	64
1967.....	32.3	21.5	67
1966.....	31.4	20.2	64
1965.....	25.4	16.6	65
1964.....	21.2	13.3	63
1963.....	17.3	11.4	66
1962.....	16.0	10.0	63
1961.....	15.5	9.8	63
1960.....	16.4	10.0	61
1959.....	13.8	9.3	67
1958.....	13.0	9.6	74
1954.....	12.0	8.2	68
1947.....	8.7	² 6.0	69

¹Data from U.S. Department of Commerce, *Plant and Equipment Expenditures and Plans, Revised Estimates for 1978 to 1989*.

²Excludes data for establishments under construction but not yet in operation.

a current cost basis. This change to a uniform instruction for reporting inventories was introduced for all sector reports. Prior to 1982, respondents were permitted to value inventories using any generally accepted accounting method (FIFO, LIFO, market, to name a few). In 1982, LIFO users were asked to first report the LIFO reserve and the LIFO value after adjustment for the reserve.

Because of this change in reporting instructions, the 1982 through 1987 data for inventories and value added by manufacture included in the tables of this report are not comparable to the prior-year data shown in this report and in historical census of manufactures and annual survey of manufactures publications.

Table N. Expenditures for New Plant and Equipment—Plant and Equipment Survey and Census of Manufactures by Major Group: 1987 and 1982

[Billion dollars]

Major group	Plant and Equipment Expenditures Survey		Census of manufactures		Census as percent of Plant and Equipment Expenditures Survey	
	1987	1982	1987	1982	1987	1982
All Manufacturing	141.0	124.0	78.6	74.6	56	60
Durable Goods.....	68.0	54.6	43.1	36.6	63	67
Primary metal industries.....	8.6	6.8	3.9	4.7	45	69
Fabricated metal products....	3.6	2.8	4.8	3.7	133	132
Electronic and other electric equipment.....	16.8	12.2	6.9	(NA)	41	(NA)
Machinery, except electrical..	11.9	12.3	7.0	8.5	59	69
Transportation equipment...	16.7	13.6	10.8	7.2	65	53
Stone, clay, and glass products	3.3	2.7	2.4	2.3	73	85
Other durables.....	7.1	4.3	7.3	2.7	103	63
Nondurable goods	73.0	69.4	35.6	37.9	49	55
Food and kindred products...	12.1	9.4	7.2	6.7	60	71
Textile mill products	2.0	1.6	2.0	1.6	100	100
Paper and allied products...	8.5	5.5	5.8	5.1	68	93
Chemicals and allied products	13.9	11.4	8.7	9.1	63	80
Petroleum and coal products	22.1	33.5	2.3	6.6	10	20
Rubber and miscellaneous plastics products	2.9	1.7	3.4	2.2	117	129
Other nondurables	11.5	6.3	6.2	6.6	54	105

¹Data from U.S. Department of Commerce, *Plant and Equipment Expenditures and Plans, Revised Estimates for 1978 to 1989*.

Separate information was requested for:

- Finished goods
- Work-in-process
- Materials, supplies, fuel, and other inventories

In using inventory data by stage of fabrication for all industries at the industry level, it should be noted that an item held in finished goods inventories by one establishment may be sold to another establishment where it is held in materials and supplies inventories. For example, the finished good inventories of a steel mill, if shipped to a stamping plant would be reported as materials and supplies inventories. Such differences in the composition of stage-of-fabrication inventories are present in the inventory figures by stage of fabrication shown for individual industries, industry groups, and total manufacturing.

For a few industries in the food group, there are special problems in the handling of inventories by stage of fabrication. These are industries in which the products are

aged. Included among such types of products are stemmed and dried tobacco, cheese, and whiskey. It is not clear whether such products should be treated as finished-goods inventories or as work-in-process while in storage. In all these industries, substantial finished goods inventories have been reported. These data have been summarized in the inventory tables in a consistent manner for all of the years included in this report.

27. PLANT SPECIALIZATION

As discussed in section 11 above, the primary products of a plant are those which determine its industry classification; all other products are referred to as secondary products. The value of a plant's primary products in comparison to its total production is referred to as its degree of specialization. For each plant, two measures of specialization were computed.

1. A four-digit primary product-specialization ratio that is the sum of the value of all the plant's primary products divided by the sum of all its primary and secondary products
2. A five-digit primary product-class specialization ratio that is the sum of the largest five-digit product-class value divided by the sum of its primary and secondary products (the miscellaneous receipts of the establishment were not included in these calculations). For example, assume that an establishment reported the following:

Total value of shipments and other receipts	\$1,000
Miscellaneous receipts (resales, etc.)	15
Total value of products shipped	985
32721, Concrete pipe products	100
32722, Precast concrete products	785
32730, Ready-mixed concrete	100

This plant would be coded into Industry 3272, Concrete Products, with a primary product specialization ratio of 90 percent ($\$885 \div 985$); it would be subclassified into the five-digit class 32722, Precast Concrete, with a primary product class specialization ratio of 80 percent ($\$785 \div 985$).

28. CONFIDENTIALITY

The Census Bureau is prohibited by law from publishing any statistics that disclose information reported by individual companies. In suppressing figures to avoid disclosing data for individual companies, individual States are given precedence over geographic regions and divisions. This is a change beginning in 1977, since in prior censuses the large geographic areas were given precedence. As a result of this change in philosophy, it has become more difficult to produce industry detail for the larger geographic areas

and data for these areas are no longer published. States are given precedence over metropolitan statistical areas, metropolitan statistical areas over counties, and counties over places.

In tables showing industry detail, major group (two-digit) totals take precedence over industry group (three-digit) totals which, in turn, take precedence over individual (four-digit) industries. Similarly, in product tables, four-digit product groupings take precedence over five-digit product classes and the latter over individual seven-digit products.

Such order of precedence was used because:

- a. It was considered preferable to show State data for an industry, even at the cost of withholding data for a region. In recent years, there seemed to be more need for and use of data for individual States than for the larger regions, especially since many regional development programs encompassed clusters of States different from the standard regions and divisions.
- b. By giving preference to the industry group statistics over individual industries within each State, the extent to which individual States can be compared within the SIC industry classification framework is greatly increased.

29. SPECIAL TABULATIONS

Special tabulations of data collected in the 1987 Census of Manufactures may be obtained on computer tape or in tabular form. The data will be in summary form and subject to the same rules prohibiting disclosure of confidential information (including name, address, kind of business, or other data for individual business establishments or companies) as are the regular publications.

Special tabulations are prepared on a cost basis. A request for a cost estimate as well as exact specifications on the type and format of the data to be provided, should be directed to the Chief, Industry Division, Bureau of the Census, Washington, DC 20233.

30. ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used in this publication:

- Represents zero.
- (D) Withheld to avoid disclosing data for individual companies.
- (NA) Not available.
- (NC) Not comparable.
- (S) Withheld because estimate did not meet publication standards on the basis of either the response rate or a consistency review.
- (X) Not applicable.
- (Z) Less than half the unit shown.

do	Ditto.
ASM	Annual Survey of Manufactures.
BEA	Bureau of Economic Analysis.
BLS	Bureau of Labor Statistics.
CIR	Current Industrial Reports.
CMSA	Consolidated Metropolitan Statistical Area.
GDP	Gross domestic product.
GNP	Gross national product.
GPO	Gross product originating.
IRS	Internal Revenue Service.
IVA	Inventory valuation adjustment.
kWh	Kilowatt-hours.
MA	Metropolitan Area.
n.e.c.	Not elsewhere classified.
n.s.k.	Not specified by kind.
PMSA	Primary Metropolitan Statistical Area.
r	Revised.
SEC	Securities and Exchange Commission.
SIC	Standard Industrial Classification.
SSA	Social Security Administration.

Other abbreviations, such as lb, gal, yd, doz, and bbl, are used in customary sense.

31. CONTACTS FOR DATA USERS

Subject Area	Contact	Phone
Census/ASM		
Durables	Kenneth Hansen	(301) 763-7304
Nondurables	Michael Zampogna	(301) 763-2510
Current Industrial Reports		
Durables	Malcolm Bernhardt	(301) 763-2518
Nondurables	Thomas Flood	(301) 763-5911
Import/Export Publications	Foreign Trade Division	(301) 763-5140
Industry Analysis and Forecasts	International Trade Administration	(202) 377-4356

USERS' GUIDE FOR LOCATING STATISTICS IN THIS

	Item	Historical statistics 1987 and earlier years						Industry statistics 1987	
		All indus- tries	Auxil- iaries	Major group (two- digit)	Oper- ating ratios	Product class (five- digit)	State totals	All indus- tries	Industry totals (four- digit)
1	Number of companies -----							1-3	1-3
2	Number of manufacturing establishments -----	1-1		2-1			4-1	1-3	1-3
	Employment and payroll:								
3	Number of employees -----	1-1	2-5	2-1	1-2		4-1, 4-4	1-3	1-3
4	Payroll -----	1-1	2-5	2-1	1-2		4-1, 4-4	1-3	1-3
5	Supplemental labor costs -----								
6	Production workers -----	1-1		2-1	1-2		4-1	1-3	1-3
7	Production-worker hours -----	1-1		2-1	1-2		4-1	1-3	1-3
8	Production-worker wages -----	1-1		2-1	1-2		4-1	1-3	1-3
	Shipments, cost of materials, and value added:								
9	Total shipments -----	1-1			1-2		4-1	1-3	1-3
10	Major group (two-digit) -----			2-1					
11	Industry group (three-digit) -----								
12	Industry (four-digit) -----								1-3
13	Product class (five-digit) -----					3-1			
14	Value added by manufacture --	1-1		2-1	1-2		4-1	1-3	1-3
15	Cost of materials -----			2-1	1-2		4-1	1-3	1-3
16	Fuels and electric energy -----								
	Inventories:								
17	End-of-year total -----							1-3	1-3
18	By method of valuation -----								
19	By stage of fabrication -----								
20	Beginning-of-year total -----							1-3	1-3
	Capital expenditures, assets, rental payments, purchased services:								
21	New capital expenditures -----	1-1		2-1			4-1	1-3	1-3
22	Used plant and equipment expenditures -----								
23	Gross assets -----								
24	Depreciation -----								
25	Retirements of buildings and machinery -----								
26	Rental payments -----								
27	Purchased services -----								
	Ratios:								
28	Specialization -----								1-3
29	Coverage -----								1-3

REPORT BY CHAPTER AND TABLE NUMBER

Industry statistics 1987—Con.					Geographic statistics 1987					
Industry group three-digit		Major group two-digit			U.S. and State totals	State (two- and three- digit)	Auxil- iaries	MSA	Employ- ment- size class	
Industry	State	Auxil- iaries	Summary	Employ- ment size						
1-3			2-3a		4-2					1
1-3	2-2	2-6	2-3a	2-4	4-2	2-2		4- 3	4-5	2
1-3	2-2	2-5, 2-6 2-5, 2-6	2-3a	2-4	4-2	2-2	4-4 4-4	4-3		3
1-3	2-2		2-3a	2-4	4-2	2-2		4-3		4
			2-3a		4-2					5
1-3	2-2		2-3a	2-4	4-2	2-2		4-3		6
1-3	2-2		2-3a	2-4	4-2	2-2		4-3		7
1-3	2-2		2-3a	2-4	4-2	2-2		4-3		8
			2-3a	2-4	4-2	2-2		4-3		9
			2-3a	2-4		2-2				10
1-3	2-2					2-2				11
										12
1-3	2-2		2-3a	2-4	4-2	2-2		4-3		13
1-3	2-2		2-3a, 2-3e 2-3a	2-4	4-2 4-2	2-2		4-3		14 15
										16
1-3			2-3b 2-3b, 3c	2-4	4-2					17 18
			2-3b		4-2					19
1-3			2-3b		4-2					20
1-3	2-2			2-4	4-2	2-2		4-3		21
										22
			2-3d		4-2					23
			2-3d		4-2					24
			2-3d		4-2					25
			2-3d		4-2					26
			2-3d 2-3e		4-2					27
										28
										29



CHAPTER 1. Historical Statistics

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Table 1. Statistics for All Manufacturing Establishments Including Auxiliaries: 1987 and Earlier Years

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	All establishments ¹		All employees ²		Production workers			Value added by manufacture ⁴ (million dollars)	Value of shipments (million dollars)	New capital expenditures ⁵ (million dollars)	Index of industrial production ⁶ (1987 = 100)
	Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number ³ (1,000)	Hours (millions)	Wages (million dollars)				
1987 Census	368 897	126 294	18 950.3	475 651.0	12 242.7	24 300.6	251 432.6	1 165 746.8	2 475 901.0	78 647.8	100.0
1986 ASM ⁷	(NA)	(NA)	18 370.0	450 759.6	11 765.4	23 178.2	236 599.4	1 035 437.4	2 260 314.6	76 354.5	95.3
1985 ASM ⁷	(NA)	(NA)	18 796.4	443 085.1	12 174.4	23 731.6	235 790.8	1 000 142.0	2 280 183.8	83 058.3	94.4
1984 ASM ⁷	(NA)	(NA)	19 123.3	428 398.8	12 572.8	24 637.1	231 783.9	983 227.7	2 253 429.3	75 185.8	92.8
1983 ASM ⁷	(NA)	(NA)	18 709.2	394 720.9	12 194.9	23 611.1	212 407.9	881 987.8	2 054 897.9	62 204.9	84.9
1982 Census	358 061	123 163	19 094.1	379 626.5	12 400.6	23 538.3	204 787.2	824 117.7	1 960 205.8	74 561.6	81.9
1981 ASM ⁷	(NA)	(NA)	20 264.0	379 214.4	13 542.8	26 233.1	212 200.9	837 506.5	2 017 542.5	78 632.3	85.7
1980 ASM ⁷	(NA)	(NA)	20 646.9	350 410.9	13 900.1	26 745.7	198 164.0	773 831.3	1 852 668.3	70 112.8	84.1
1979 ASM ⁷	(NA)	(NA)	21 040.2	328 887.9	14 537.8	28 324.3	192 881.5	747 480.5	1 727 214.6	61 533.0	85.7
1978 ASM ⁷	(NA)	(NA)	20 501.9	298 867.4	14 228.7	27 676.5	176 416.8	657 412.0	1 522 937.3	55 209.2	82.6
1977 Census	359 928	118 699	19 590.1	264 013.1	13 691.0	26 686.7	157 163.7	585 165.6	1 358 526.4	47 459.0	78.2
1976 ASM ⁷	(NA)	(NA)	18 753.0	233 388.7	13 052.0	25 354.2	137 565.4	511 471.1	1 185 695.3	40 689.9	72.4
1975 ASM ⁷	(NA)	(NA)	18 302.2	209 519.0	12 568.9	24 069.6	121 429.0	442 485.2	1 039 377.4	37 262.1	66.3
1974 ASM ⁷	(NA)	(NA)	19 844.4	208 312.0	13 927.1	27 251.0	124 977.1	452 497.0	1 017 873.4	35 546.1	72.7
1973 ASM ⁷	(NA)	(NA)	19 844.8	193 324.5	14 232.8	28 096.9	118 332.6	405 583.6	875 443.2	26 972.9	73.8
1972 Census	320 710	114 195	19 028.7	174 205.5	13 527.9	26 699.2	105 501.8	353 994.0	756 534.3	24 077.7	68.3
1971 ASM ⁷	(NA)	(NA)	18 363.1	156 202.8	12 874.9	25 265.9	93 231.7	314 138.4	670 970.5	20 940.7	62.2
1970 ASM ⁷	(NA)	(NA)	19 217.2	153 078.5	13 528.0	26 669.3	91 609.0	300 227.6	634 322.1	22 164.2	61.4
1969 ASM ⁷	(NA)	(NA)	20 035.5	152 765.6	14 357.8	28 599.8	93 459.6	304 440.7	642 635.8	22 291.2	63.5
1968 ASM ⁷	(NA)	(NA)	19 527.6	141 822.7	14 041.2	28 156.8	87 480.9	285 058.9	603 220.1	20 613.1	60.7
1967 Census	311 140	110 256	19 323.2	132 208.4	13 955.3	27 837.6	81 393.6	261 983.8	557 397.8	21 503.0	57.5
1966 ASM ⁷	(NA)	(NA)	19 024.5	125 350.0	13 826.5	28 102.5	78 256.4	250 880.1	538 736.9	20 235.8	56.3
1965 ASM ⁷	(NA)	(NA)	18 010.2	113 972.2	13 076.0	26 567.8	71 361.5	226 939.9	492 005.1	16 615.0	51.7
1964 ASM ⁷	(NA)	(NA)	17 268.5	106 403.3	12 403.3	25 245.5	65 838.9	206 193.6	447 985.1	13 294.3	47.0
1963 ASM ⁷	311 931	102 296	16 958.4	99 898.8	12 232.0	24 509.4	62 093.6	192 082.9	420 528.1	11 370.0	44.0
1962 Census	(NA)	(NA)	16 765.6	94 291.2	12 126.5	24 269.5	59 134.1	179 071.1	399 308.9	10 436.2	41.6
1961 ASM ⁷	(NA)	(NA)	16 331.2	88 127.8	11 778.5	23 289.4	54 764.6	164 281.1	369 994.3	9 779.8	38.4
1960 ASM ⁷	(NA)	(NA)	16 762.7	88 087.1	12 209.5	24 174.4	55 555.5	163 998.5	(NA)	10 097.8	38.1
1959 ASM ⁷	(NA)	(NA)	16 662.2	85 642.0	12 272.6	24 443.6	54 714.1	161 535.8	(NA)	9 140.0	37.3
1958 Census ⁸	303 303	95 310	16 025.2	78 348.9	11 681.1	22 679.2	49 605.2	141 540.6	326 722.8	9 543.5	33.3
1957 ASM ⁷	(NA)	(NA)	17 104.7	79 354.0	12 828.9	25 208.0	52 569.0	147 838.4	(NA)	12 144.0	35.6
1956 ASM ⁷	(NA)	(NA)	17 178.3	77 059.0	13 131.3	26 088.5	52 040.8	144 909.3	(NA)	11 233.2	35.1
1955 ASM ⁷	(NA)	(NA)	16 818.5	72 126.0	12 954.4	25 898.3	49 217.9	135 022.5	(NA)	8 233.1	33.7
1954 Census ⁸	(NA)	(NA)	16 125.6	65 977.0	12 372.0	24 334.1	44 590.5	117 032.3	(NA)	8 200.7	29.9
1953 ASM ⁷	(NA)	(NA)	17 093.0	68 590.4	13 500.9	27 065.6	48 979.1	121 659.1	(NA)	8 047.9	31.6
1952 ASM ⁷	(NA)	(NA)	16 061.0	61 140.6	12 706.0	25 617.6	43 763.6	109 162.1	(NA)	7 883.4	29.1
1951 ASM ⁷	(NA)	(NA)	15 638.0	56 283.8	12 508.9	25 263.8	40 654.8	102 085.8	(NA)	7 781.7	28.0
1950 ASM ⁷	(NA)	(NA)	14 769.9	47 892.9	11 778.8	23 716.5	34 600.0	89 749.8	(NA)	5 041.3	25.8
1949 ASM ⁷	(NA)	(NA)	13 880.1	42 752.0	11 016.3	21 769.7	30 254.0	75 366.5	(NA)	5 066.9	22.3
1947 Census	240 807	(NA)	14 294.0	39 695.6	11 917.9	24 316.5	30 244.0	74 290.5	(NA)	5 998.1	22.7
1939 Census ^{8,9}	173 802	(NA)	¹⁰ 527.3	¹⁰ 12 706.1	7 808.2	(NA)	8 997.5	24 487.3	(NA)	(NA)	12.5
1937 Census	166 794	(NA)	9 786.4	12 829.7	8 569.2	(NA)	10 112.9	25 173.5	(NA)	(NA)	12.9
1935 Census ⁸	167 916	(NA)	8 262.3	9 564.8	7 203.8	(NA)	7 311.3	18 552.6	(NA)	(NA)	9.9
1933 Census	139 325	(NA)	6 557.9	¹¹ 6 237.8	5 787.6	(NA)	4 940.1	14 007.5	(NA)	(NA)	7.9
1931 Census	171 450	(NA)	(NA)	(NA)	6 163.1	(NA)	6 688.5	18 600.5	(NA)	(NA)	8.6
1929 Census	206 663	(NA)	9 659.7	14 284.3	8 369.7	(NA)	10 884.9	30 591.4	(NA)	(NA)	12.4
1927 Census	187 629	(NA)	9 072.1	13 123.1	7 848.1	(NA)	10 099.5	26 325.4	(NA)	(NA)	10.8
1925 Census	183 877	(NA)	9 142.4	12 957.7	7 871.4	(NA)	9 979.6	25 667.6	(NA)	(NA)	10.8
1923 Census	192 096	(NA)	9 474.7	12 996.5	8 194.2	(NA)	10 148.6	24 569.5	(NA)	(NA)	10.2
1921 Census	192 059	(NA)	7 557.4	9 870.2	6 475.5	(NA)	7 451.3	17 252.8	(NA)	(NA)	9.9
1919 Census	270 231	(NA)	9 836.8	12 426.9	8 464.9	(NA)	9 664.0	23 841.6	(NA)	(NA)	8.1
1914 Census	268 436	(NA)	7 514.2	5 016.0	6 602.3	(NA)	3 782.3	9 385.6	(NA)	(NA)	(NA)
1909 Census	264 810	(NA)	7 021.1	4 105.5	6 261.7	(NA)	3 205.2	8 160.1	(NA)	(NA)	(NA)
1904 Census	213 444	(NA)	5 674.9	2 990.9	5 181.7	(NA)	2 440.9	6 019.2	(NA)	(NA)	(NA)
1899 Census	204 754	(NA)	4 850.0	2 258.7	4 501.9	(NA)	1 892.6	4 647.0	(NA)	(NA)	(NA)
1899 Census ¹²	509 490	(NA)	5 478.3	2 595.6	5 097.6	(NA)	2 206.5	5 474.9	(NA)	(NA)	(NA)
1889 Census	353 864	(NA)	4 586.5	2 209.1	4 129.4	(NA)	1 820.9	4 120.3	(NA)	(NA)	(NA)
1879 Census	253 852	(NA)	(NA)	(NA)	2 732.6	(NA)	948.0	1 972.8	(NA)	(NA)	(NA)
1869 Census	252 148	(NA)	(NA)	(NA)	2 054.0	(NA)	620.5	1 395.1	(NA)	(NA)	(NA)
1859 Census	140 433	(NA)	(NA)	(NA)	1 311.2	(NA)	378.9	854.3	(NA)	(NA)	(NA)
1849 Census	123 025	(NA)	(NA)	(NA)	957.1	(NA)	236.8	464.0	(NA)	(NA)	(NA)

¹Includes establishments with payroll at any time during year.

²Figures for 1939 to 1987 include data for employees at manufacturing establishments who were engaged in distribution and in construction work. The extent to which data for such employees were included in figures for earlier years is not known. In addition to employment and payroll for operating manufacturing establishments, manufacturing companies reported separately for auxiliary units (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.) that service manufacturing establishment(s) of a company. These data are included in total employment, payroll, and establishment figures for the years 1949 to 1987.

³Method of compiling figures varied, as follows: All employees: For 1955 to 1987, figures represent an average of the number of production workers for payroll period ended nearest the 12th of March, May, August, and November, plus all other employees for payroll period ended nearest the 12th of March; for 1949 to 1954, they represent an average of all employees for payroll period ended nearest the 12th of March, May, August, and November; for 1947, an average of 12 monthly figures for all employees; and for 1939 and prior years, the average number of production workers based on 12 monthly figures, plus the number of nonproduction workers for one payroll period (usually in October). Production workers: For 1949 to 1982, figures are based on employment for payroll period ended nearest the 12th of March, May, August, and November; for 1947 and prior years, they represent the average of 12 monthly figures.

⁴Beginning with the 1982 Census of Manufactures, all respondents were requested to report their inventories at the (lower of) cost or market prior to adjustment to LIFO cost. This is a change from prior Censuses and annual surveys of manufactures in which respondents were permitted to value their inventories using any generally accepted accounting method. Consequently, inventories and value added by manufacture are not comparable to prior-year data. For the period 1954 to 1982, value added by manufacture represents adjusted value added, for earlier years, unadjusted value added. Unadjusted value added is obtained by subtracting the cost of materials, supplies and containers, fuel, purchased electric energy, and contract work from the value of shipments for products manufactured plus receipts for services rendered. Adjusted value added also takes into account (a) value added by merchandising operations (difference between the sales value and cost of merchandise sold without further manufacture, processing, or assembly), plus (b) net change in finished goods and work in process between the beginning- and end-of-year inventories. For 1849 to 1933, cost of contract work was not subtracted from value of shipments in calculating value added by manufacture.

⁵Figures for 1951 to 1982 include expenditures for plants under construction and not yet in operation. This information was not collected prior to 1951.

⁶Source: Board of Governors, Federal Reserve System.

⁷Represents estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors.

⁸Data for the years 1958 forward and years prior to 1939 include establishments classified in Industry 3273, Ready-Mixed Concrete, and establishments classified in Industry 3599, Industrial Machinery, N.E.C., that were engaged exclusively or almost exclusively in machine shop repair work. Data for such establishments were excluded between 1939 and 1957. Data for establishments engaged in processing and distribution of fluid milk, Industry Group 202, Dairy Products, and Industry 2411, Logging, are excluded prior to 1954. Figures for 1935 forward exclude data for railroad repair shops and manufactured gas.

⁹Figures for 1939, but not for earlier years, have been revised on the basis of retabulation of returns to exclude data for establishments classified as manufacturing in 1939 and prior years but classified as nonmanufacturing beginning with 1947. Value added by manufacture for 1939, prior to revision and on a basis comparable with 1937 and previous years, was \$24.7 billion.

¹⁰1939 figures for all employees were revised on the basis of estimates rather than by retabulation of 1939 reports. Estimates were made in the following manner: For number of employees, by multiplying retabulated figure for number of production workers by ratio of all employees to production workers computed from unrevised 1939 statistics; for salaries and wages, by multiplying retabulated wage figure by ratio for salaries and wages also derived from the unrevised 1939 statistics.

¹¹Excludes data for salaried officers of corporations and their salaries and, therefore, is not strictly comparable with figures for other years.

¹²Figures for 1899 and earlier years represent hand and neighborhood manufacturing operations.

Table 2. Operating Ratios for All Manufacturing Establishments Including Auxiliaries: 1987 and Earlier Years

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production workers as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Assets as percent of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production-worker hour (dollars)
1987 Census	25 100	48 636	65	1 985	10.35	53	73	37	61 516	41	47.97
1986 ASM	24 538	(NA)	64	1 970	10.21	(NA)	(NA)	(NA)	56 366	44	44.67
1985 ASM	23 573	(NA)	65	1 949	9.94	(NA)	(NA)	(NA)	53 209	44	42.14
1984 ASM	22 402	(NA)	66	1 960	9.41	(NA)	(NA)	(NA)	51 415	44	39.91
1983 ASM	21 098	(NA)	65	1 936	9.00	(NA)	(NA)	(NA)	47 142	45	37.35
1982 Census	19 882	36 178	65	1 898	8.70	58	77	35	43 161	46	35.01
1981 ASM	18 714	31 112	67	1 937	8.09	59	78	31	41 330	45	31.93
1980 ASM	16 972	27 784	67	1 924	7.41	59	78	31	37 479	45	28.93
1979 ASM	15 631	24 836	69	1 948	6.81	58	77	30	35 526	44	26.39
1978 ASM	14 578	23 356	69	1 945	6.37	58	77	31	32 066	45	23.75
1977 Census	13 477	22 406	70	1 949	5.89	58	77	32	29 870	45	21.93
1976 ASM	12 445	21 423	70	1 943	5.43	57	77	34	27 274	46	20.17
1975 ASM	11 448	20 075	69	1 915	5.04	57	78	35	24 177	47	18.38
1974 ASM	10 497	17 131	70	1 957	4.59	57	78	33	22 802	46	16.60
1973 ASM	9 742	15 889	72	1 974	4.21	55	77	36	20 438	48	14.44
1972 Census	9 155	15 799	71	1 974	3.95	54	77	40	18 603	49	13.26
1971 ASM	8 506	15 107	70	1 962	3.69	53	76	41	17 107	50	12.43
1970 ASM	7 966	13 910	70	1 971	3.43	53	78	42	15 623	51	11.26
1969 ASM	7 625	12 440	72	1 992	3.27	53	77	39	15 195	50	10.64
1968 ASM	7 263	11 869	72	2 005	3.11	53	77	38	14 598	50	10.12
1967 Census	6 842	11 286	72	1 995	2.92	54	77	39	13 558	50	9.41
1966 ASM	6 589	(NA)	73	2 033	2.78	55	78	(NA)	13 187	50	8.93
1965 ASM	6 328	(NA)	73	2 032	2.69	55	78	(NA)	12 601	50	8.54
1964 ASM	6 162	9 726	72	2 035	2.61	54	78	37	11 940	52	8.17
1963 ASM	5 891	9 294	72	2 004	2.53	55	78	37	11 327	52	7.84
1962 Census	5 624	8 890	72	2 001	2.44	55	79	(NA)	10 681	53	7.38
1961 ASM	5 398	(NA)	72	1 977	2.35	56	80	(NA)	10 059	54	7.05
1960 ASM	5 255	(NA)	73	1 980	2.30	(NA)	(NA)	(NA)	9 784	54	6.78
1959 ASM	5 140	(NA)	74	1 992	2.24	(NA)	(NA)	(NA)	9 695	53	6.61
1958 Census	4 889	(NA)	73	1 942	2.19	(NA)	(NA)	(NA)	8 832	55	6.24
1957 ASM	4 639	6 460	75	1 965	2.09	(NA)	(NA)	(NA)	8 643	54	5.86
1956 ASM	4 486	(NA)	76	1 987	1.99	(NA)	(NA)	(NA)	8 436	53	5.55
1955 ASM	4 288	(NA)	77	1 999	1.90	(NA)	(NA)	(NA)	8 028	53	5.21
1954 Census	4 091	(NA)	77	1 967	1.83	(NA)	(NA)	(NA)	7 258	56	4.81
1953 ASM	4 013	(NA)	79	2 005	1.81	(NA)	(NA)	(NA)	7 117	56	4.49
1952 ASM	3 807	(NA)	79	2 016	1.71	(NA)	(NA)	(NA)	6 797	56	4.26
1951 ASM	3 599	(NA)	80	2 020	1.61	(NA)	(NA)	(NA)	6 528	55	4.04
1950 ASM	3 243	(NA)	80	2 013	1.46	(NA)	(NA)	(NA)	6 077	53	3.78
1949 ASM	3 080	(NA)	79	1 976	1.39	(NA)	(NA)	(NA)	5 430	57	3.46
1947 Census	2 777	(NA)	83	2 040	1.24	(NA)	(NA)	(NA)	5 197	53	3.06
1939 Census	1 334	(NA)	82	(NA)	(NA)	(NA)	(NA)	(NA)	2 570	52	(NA)
1937 Census	1 311	(NA)	88	(NA)	(NA)	(NA)	(NA)	(NA)	2 572	51	(NA)
1935 Census	1 158	(NA)	87	(NA)	(NA)	(NA)	(NA)	(NA)	2 245	52	(NA)
1933 Census	951	(NA)	88	(NA)	(NA)	(NA)	(NA)	(NA)	2 136	45	(NA)
1931 Census	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1929 Census	1 479	(NA)	87	(NA)	(NA)	(NA)	(NA)	(NA)	3 167	47	(NA)
1927 Census	1 447	(NA)	87	(NA)	(NA)	(NA)	(NA)	(NA)	2 902	50	(NA)
1925 Census	1 417	(NA)	86	(NA)	(NA)	(NA)	(NA)	(NA)	2 808	50	(NA)
1923 Census	1 372	(NA)	86	(NA)	(NA)	(NA)	(NA)	(NA)	2 593	53	(NA)
1921 Census	1 306	(NA)	86	(NA)	(NA)	(NA)	(NA)	(NA)	2 283	57	(NA)
1919 Census	1 263	(NA)	86	(NA)	(NA)	(NA)	(NA)	(NA)	2 424	52	(NA)
1914 Census	668	(NA)	88	(NA)	(NA)	(NA)	(NA)	(NA)	1 249	53	(NA)
1909 Census	585	(NA)	89	(NA)	(NA)	(NA)	(NA)	(NA)	1 162	50	(NA)
1904 Census	527	(NA)	91	(NA)	(NA)	(NA)	(NA)	(NA)	1 061	50	(NA)
1899 Census	466	(NA)	93	(NA)	(NA)	(NA)	(NA)	(NA)	958	49	(NA)
1899 Census	474	(NA)	93	(NA)	(NA)	(NA)	(NA)	(NA)	999	47	(NA)
1889 Census	482	(NA)	90	(NA)	(NA)	(NA)	(NA)	(NA)	898	54	(NA)
1879 Census	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1869 Census	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1859 Census	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1849 Census	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

Note: For qualifications of data, see footnotes, chapter 1, table 1.

Table 3. Selected Statistics by Industry Group and Industry: 1987 and 1982

[Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports]

1987 SIC code	Industry group and industry	1987									
		Companies¹ (number)	All establishments²		All employees		Production workers			Value added by manu- facture³ (million dollars)	Cost of materials⁴ (million dollars)
			Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)		
	All Industries	310 341	368 897	126 294	18 950.3	475 651.0	12 242.7	24 300.6	251 432.6	1 165 746.8	1 319 803.1
20	Food and kindred products	15 692	20 583	9 688	1 448.8	30 267.5	1 029.1	2 019.2	18 899.2	121 602.9	208 755.1
201	Meat products	2 767	3 240	1 534	340.5	5 700.7	285.1	571.6	4 274.7	13 842.3	63 224.4
2011	Meat packing plants	1 328	1 434	503	113.9	2 162.4	93.9	197.6	1 634.7	5 266.9	40 302.9
2013	Sausages and other prepared meats	1 207	1 343	650	78.7	1 612.2	59.5	121.1	1 074.9	4 457.0	12 085.9
2015	Poultry slaughtering and processing	284	463	381	147.9	1 926.1	131.7	252.8	1 565.1	4 118.4	10 835.4
202	Dairy products	1 700	2 366	1 288	141.5	3 217.4	87.0	174.5	1 802.0	11 846.6	32 942.6
2021	Creamery butter	44	49	26	1.7	38.9	1.3	2.8	27.4	133.6	1 291.3
2022	Cheese, natural and processed	508	644	310	33.0	657.8	27.0	52.7	510.3	2 624.8	10 336.6
2023	Dry, condensed, and evaporated dairy products	124	186	115	14.1	399.3	8.7	18.0	206.4	2 391.6	3 463.0
2024	Ice cream and frozen desserts	469	541	211	20.3	440.1	13.8	26.9	269.0	1 270.4	2 662.1
2026	Fluid milk	652	946	626	72.4	1 681.3	36.2	74.2	788.9	5 426.2	15 189.6
203	Preserved fruits and vegetables	1 438	1 918	1 108	208.5	3 784.3	172.9	327.3	2 774.4	17 364.3	19 117.3
2032	Canned specialties	183	211	86	24.5	524.8	19.5	38.1	395.2	2 652.4	2 700.4
2033	Canned fruits and vegetables	462	647	417	65.1	1 161.1	55.5	104.1	878.4	5 440.1	6 465.9
2034	Dehydrated fruits, vegetables, and soups	107	132	68	10.1	190.8	8.4	15.4	137.8	933.6	924.7
2035	Pickles, sauces, and salad dressings	344	382	162	21.4	451.8	16.6	32.6	310.0	2 544.8	2 506.8
2037	Frozen fruits and vegetables	194	258	193	49.8	786.8	42.8	78.4	591.4	2 986.8	3 669.5
2038	Frozen specialties, n.e.c.	244	288	182	37.5	669.1	30.1	58.7	461.7	2 806.6	2 849.9
204	Grain mill products	1 722	2 607	1 012	102.4	2 703.6	69.8	147.8	1 727.7	15 408.6	21 348.0
2041	Flour and other grain mill products ..	237	358	165	13.3	354.6	9.9	21.4	246.0	1 336.7	3 657.0
2043	Cereal breakfast foods	33	53	34	16.0	598.9	13.1	28.4	478.6	4 904.5	1 669.8
2044	Rice milling	48	63	35	4.5	89.1	3.5	7.3	60.4	469.6	819.4
2045	Prepared flour mixes and doughs ..	120	149	97	12.1	275.9	8.2	16.5	156.8	1 278.8	1 339.6
2046	Wet corn milling	31	60	35	8.6	298.9	5.9	12.9	192.8	2 074.5	2 694.4
2047	Dog and cat food	130	186	101	13.4	365.8	9.9	20.5	244.2	2 741.5	2 296.8
2048	Prepared feeds, n.e.c.	1 182	1 738	545	34.5	720.4	19.5	40.8	349.0	2 603.0	8 871.0
205	Bakery products	2 349	2 850	1 287	217.0	4 760.7	127.9	248.9	2 547.1	15 213.3	8 497.9
2051	Bread, cake, and related products ..	1 948	2 357	1 031	161.9	3 558.0	86.6	169.3	1 713.5	10 525.8	5 696.7
2052	Cookies and crackers	316	379	190	45.3	1 007.7	33.7	64.9	701.4	4 087.4	2 235.9
2053	Frozen bakery products, except bread	103	114	66	9.9	195.0	7.5	14.7	132.2	600.1	565.4
206	Sugar and confectionery products	918	1 075	519	90.3	1 991.3	72.3	140.4	1 421.8	8 466.3	10 553.3
2061	Raw cane sugar	31	40	40	6.2	143.3	4.8	11.0	108.4	504.2	792.1
2062	Cane sugar refining	14	21	16	5.5	177.4	4.2	9.0	130.4	445.4	2 002.8
2063	Beet sugar	14	42	38	7.9	190.1	6.6	14.4	151.0	613.2	1 277.0
2064	Candy and other confectionery products	623	685	295	45.8	899.5	37.0	68.3	632.8	3 837.7	3 165.6
2066	Chocolate and cocoa products	173	186	53	11.0	283.3	8.5	16.3	190.9	1 449.3	1 677.4
2067	Chewing gum	8	13	12	5.2	125.5	4.3	8.0	93.0	749.7	347.1
2068	Salted and roasted nuts and seeds ..	79	88	65	8.8	172.1	6.9	13.4	115.3	866.8	1 291.2
207	Fats and oils	340	586	356	29.6	701.6	19.8	41.3	428.5	3 210.3	12 738.5
2074	Cottonseed oil mills	31	52	40	2.6	44.8	2.0	4.5	29.8	106.9	378.8
2075	Soybean oil mills	47	106	73	7.0	172.5	4.8	10.1	112.2	1 011.5	8 103.3
2076	Vegetable oil mills, n.e.c.	20	23	15	9	19.9	.5	1.1	11.4	82.7	353.3
2077	Animal and marine fats and oils	194	305	154	9.8	211.1	5.8	11.9	107.7	749.1	1 016.6
2079	Edible fats and oils, n.e.c.	67	100	74	9.3	253.3	6.6	13.7	167.4	1 260.1	2 886.3
208	Beverages	1 697	2 211	1 133	160.9	4 520.7	77.8	154.3	2 138.3	22 584.8	24 867.2
2082	Malt beverages	101	134	64	31.9	1 355.4	22.7	44.7	927.9	7 284.6	6 311.8
2083	Malt	15	27	19	1.4	44.2	1.1	2.2	32.1	153.6	368.0
2084	Wines, brandy, and brandy spirits ..	469	508	108	13.9	342.0	7.4	13.5	156.5	1 380.0	1 831.2
2085	Distilled and blended liquors	48	72	57	9.0	244.0	6.3	12.5	162.9	2 067.7	1 520.1
2086	Bottled and canned soft drinks	846	1 190	786	95.6	2 277.4	35.4	71.5	747.2	8 405.0	13 456.8
2087	Flavoring extracts and syrups, n.e.c.	245	280	99	9.1	257.6	4.9	10.0	111.6	3 293.7	1 379.4
209	Miscellaneous food and kindred products	3 271	3 730	1 451	158.0	2 887.1	116.5	213.0	1 784.8	13 666.2	15 466.0
2091	Canned and cured fish and seafoods	153	175	81	6.7	100.9	5.4	9.2	70.9	283.3	482.4
2092	Fresh or frozen prepared fish	579	645	359	38.2	534.0	32.6	58.4	384.3	1 549.0	4 233.8
2095	Roasted coffee	110	141	82	10.7	303.0	6.6	13.6	170.5	2 589.8	3 775.2
2096	Potato chips and similar snacks	277	344	183	33.1	622.3	23.2	38.6	375.1	3 300.8	1 750.2
2097	Manufactured ice	503	549	65	4.7	77.0	2.8	5.9	41.8	202.9	86.7
2098	Macaroni and spaghetti	196	218	48	6.6	140.0	5.0	9.8	90.8	614.0	435.1
2099	Food preparations, n.e.c.	1 510	1 658	633	58.0	1 109.8	40.8	77.5	651.5	5 126.4	4 702.6
21	Tobacco products	98	137	83	44.7	1 485.6	32.7	61.3	1 010.5	14 263.8	6 490.7
211	Cigarettes	9	12	12	32.0	1 233.7	23.6	42.9	860.3	12 970.7	4 396.6
2111	Cigarettes	9	12	12	32.0	1 233.7	23.6	42.9	860.3	12 970.7	4 396.6
212	Cigars	16	20	18	2.5	35.7	2.0	4.0	26.2	106.3	85.5
2121	Cigars	16	20	18	2.5	35.7	2.0	4.0	26.2	106.3	85.5
213	Chewing and smoking tobacco	23	29	19	3.3	77.2	2.2	4.3	46.2	791.9	321.5
2131	Chewing and smoking tobacco	23	29	19	3.3	77.2	2.2	4.3	46.2	791.9	321.5
214	Tobacco stemming and redrying	62	76	34	6.9	139.0	4.8	10.2	77.7	394.9	1 687.0
2141	Tobacco stemming and redrying	62	76	34	6.9	139.0	4.8	10.2	77.7	394.9	1 687.0
22	Textile mill products	4 982	6 065	3 413	672.0	11 409.6	575.1	1 175.6	8 728.4	25 660.1	37 565.5
221	Broadwoven fabric mills, cotton	246	301	151	72.3	1 260.0	64.9	137.9	1 072.1	2 610.2	2 915.9
2211	Broadwoven fabric mills, cotton	246	301	151	72.3	1 260.0	64.9	137.9	1 072.1	2 610.2	2 915.9
222	Broadwoven fabric mills, manmade fiber and silk	316	436	270	88.3	1 595.7	77.0	163.2	1 272.7	3 595.9	4 504.0
2221	Broadwoven fabric mills, manmade fiber and silk	316	436	270	88.3	1 595.7	77.0	163.2	1 272.7	3 595.9	4 504.0

See footnotes at end of table.

were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987—Con.						1982						1987 SIC code
Value of shipments ⁴ (million dollars)	New capital expenditures ⁵ (million dollars)	Inventories ³		Ratios		All employees		Value added by manu- facture (million dollars)	Value of shipments ⁴ (million dollars)	New capital expend- itures ⁵ (million dollars)		
		End of year (million dollars)	Beginning of year (million dollars)	Special- ization (percent)	Coverage (percent)	Number (1,000)	Payroll (million dollars)					
2 475 901.0	78 647.8	332 613.9	317 557.1	(NA)	(NA)	19 094.1	379 626.5	824 117.7	1 960 205.8	74 561.6		
329 725.4	7 197.5	25 305.4	24 284.2	(NA)	(NA)	1 487.7	26 087.5	88 419.1	280 529.3	6 726.9	20	
77 002.3	885.9	2 210.1	2 092.5	(NA)	(NA)	317.7	4 992.7	11 002.3	67 602.2	696.6	201	
45 536.6	246.1	832.2	781.5	98	100	134.4	2 549.3	5 824.6	44 853.6	290.0	2011	
16 553.3	252.5	841.4	824.7	96	98	65.5	1 206.2	2 900.9	12 277.5	175.5	2013	
14 912.4	387.4	536.5	486.3	98	98	117.7	1 237.1	2 276.8	10 471.1	231.1	2015	
44 755.1	744.4	2 031.8	1 952.1	(NA)	(NA)	139.9	2 553.1	8 359.8	38 771.3	711.3	202	
1 420.4	9.7	41.3	36.7	76	64	2.2	40.2	135.6	1 686.8	8.4	2021	
12 971.0	146.3	874.6	868.2	86	95	29.6	472.1	1 777.3	10 762.8	161.2	2022	
5 856.7	109.6	361.4	351.7	84	75	12.2	258.7	1 447.6	4 730.7	98.8	2023	
3 916.5	137.1	282.5	259.4	93	78	17.8	313.5	910.4	2 855.1	79.9	2024	
20 590.5	341.7	472.1	436.1	85	93	78.2	1 468.7	4 088.9	18 736.0	363.0	2026	
36 342.8	1 025.4	6 493.9	6 335.1	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	203	
5 350.1	144.8	730.2	709.8	78	92	23.4	392.4	1 769.3	4 140.8	154.3	2032	
11 889.5	257.9	2 745.3	2 714.6	90	84	70.5	1 040.1	3 552.7	9 283.4	264.1	2033	
1 821.9	48.3	517.0	486.6	93	79	13.6	216.9	792.3	1 745.1	51.7	2034	
5 050.3	221.0	566.9	585.2	78	86	22.0	371.5	1 736.9	4 268.8	67.5	2035	
6 606.2	175.2	1 414.5	1 334.5	91	93	47.7	643.5	2 408.6	5 374.6	235.7	2037	
5 624.8	178.2	520.0	504.4	93	94	(NA)	(NA)	(NA)	(NA)	(NA)	2038	
36 737.0	1 071.6	2 276.2	2 202.1	(NA)	(NA)	107.5	2 197.0	10 333.1	31 386.4	884.1	204	
4 984.8	79.5	346.8	322.0	98	97	15.1	323.0	1 094.3	4 932.8	90.6	2041	
6 565.7	333.4	306.6	295.2	79	98	15.6	435.0	2 622.8	4 131.9	165.4	2043	
1 234.9	48.8	395.5	339.0	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	2044	
2 625.1	66.1	152.6	165.5	89	78	(NA)	(NA)	(NA)	(NA)	(NA)	2045	
4 788.9	281.9	244.2	245.7	88	94	9.5	254.7	1 157.4	3 268.4	326.2	2046	
5 069.3	108.2	234.9	269.9	99	97	(NA)	(NA)	(NA)	(NA)	(NA)	2047	
11 468.2	153.7	595.5	564.9	98	96	(NA)	(NA)	(NA)	(NA)	(NA)	2048	
23 677.3	735.9	789.3	743.5	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	205	
16 221.1	519.3	351.1	344.1	97	99	170.9	3 254.3	7 861.1	13 143.3	382.4	2051	
6 290.8	184.8	351.5	313.1	95	94	45.6	796.5	2 789.3	4 664.9	107.8	2052	
1 165.4	31.8	86.6	86.3	93	78	(NA)	(NA)	(NA)	(NA)	(NA)	2053	
18 887.0	480.6	2 817.8	2 779.4	(NA)	(NA)	95.7	1 660.6	6 234.0	15 575.8	470.0	206	
1 239.4	46.2	321.9	262.0	(D)	(D)	7.5	133.8	297.7	1 113.9	89.6	2061	
2 460.2	32.7	309.9	322.9	100	99	8.3	197.2	622.4	3 040.3	69.2	2062	
1 831.5	42.5	630.7	578.1	100	99	10.3	169.4	432.2	1 515.8	32.8	2063	
6 979.8	233.2	743.9	749.2	96	94	(NA)	(NA)	(NA)	(NA)	(NA)	2064	
3 107.7	74.8	433.8	473.3	93	91	(NA)	(NA)	(NA)	(NA)	(NA)	2066	
1 090.3	23.1	128.3	121.8	(D)	(D)	5.4	96.9	598.9	915.3	16.6	2067	
2 178.0	28.0	249.3	272.2	91	94	(NA)	(NA)	(NA)	(NA)	(NA)	2068	
15 880.5	251.1	1 525.4	1 087.7	(NA)	(NA)	38.7	774.3	2 785.4	16 751.8	392.9	207	
470.7	12.2	145.8	90.3	97	93	5.2	76.2	202.9	933.3	59.6	2074	
9 074.1	90.7	928.8	573.9	90	98	8.9	188.7	678.2	8 603.6	113.4	2075	
431.5	4.9	81.5	71.3	88	72	1.3	22.3	80.0	556.9	66.9	2076	
1 753.1	57.0	88.3	75.3	97	71	10.8	215.1	562.6	1 752.5	56.5	2077	
4 151.1	86.2	281.1	276.9	90	77	12.5	272.0	1 261.7	4 905.6	96.5	2079	
47 327.2	1 253.1	4 552.7	4 589.7	(NA)	(NA)	194.1	4 244.1	16 683.6	38 800.7	1 627.9	208	
13 618.6	473.6	609.9	660.5	100	100	43.0	1 307.9	4 534.8	11 183.2	665.0	2082	
530.9	13.8	137.7	140.9	100	98	1.7	42.9	166.2	661.5	29.5	2083	
3 208.2	99.9	1 147.1	1 123.6	99	98	11.8	245.8	996.7	2 785.7	136.8	2084	
3 474.3	44.6	1 252.4	1 301.3	99	95	12.2	263.8	1 460.1	3 126.1	90.0	2085	
21 830.4	568.2	1 000.2	967.7	98	96	113.8	2 146.4	6 856.1	16 807.5	649.5	2086	
4 664.8	53.0	405.3	395.6	96	89	11.6	237.3	2 669.8	4 236.8	57.1	2087	
29 116.4	749.5	2 608.1	2 502.1	(NA)	(NA)	158.0	2 299.8	10 017.2	23 959.0	520.2	209	
767.0	14.4	142.4	151.5	88	76	13.9	194.9	613.4	1 849.1	20.5	2091	
5 783.0	105.0	792.3	690.2	96	97	37.5	408.6	966.7	4 009.1	62.2	2092	
6 400.6	155.2	524.6	595.3	94	99	11.8	265.7	2 070.3	5 826.9	80.5	2095	
5 040.8	181.3	190.0	160.4	98	94	(NA)	(NA)	(NA)	(NA)	(NA)	2096	
289.6	14.0	12.7	11.9	100	98	5.0	65.1	152.6	229.5	13.4	2097	
1 048.1	32.2	77.5	70.6	96	99	(NA)	(NA)	(NA)	(NA)	(NA)	2098	
9 787.3	247.5	868.7	822.1	91	80	(NA)	(NA)	(NA)	(NA)	(NA)	2099	
20 757.1	464.3	5 562.0	5 710.5	(NA)	(NA)	57.9	1 323.5	8 964.8	16 061.4	697.3	21	
17 372.0	410.2	4 950.4	4 997.6	(NA)	(NA)	41.5	1 093.7	8 098.3	12 126.8	570.9	211	
17 372.0	410.2	4 950.4	4 997.6	98	100	41.5	1 093.7	8 098.3	12 126.8	570.9	2111	
191.5	5.0	47.3	46.6	(NA)	(NA)	5.1	58.5	133.3	253.7	7.4	212	
191.5	5.0	47.3	46.6	97	89	5.1	58.5	133.3	253.7	7.4	2121	
1 114.3	8.9	167.7	182.5	(NA)	(NA)	3.1	51.6	420.5	665.4	8.3	213	
1 114.3	8.9	167.7	182.5	98	99	3.1	51.6	420.5	665.4	8.3	2131	
2 079.2	40.2	396.6	483.8	(NA)	(NA)	8.3	119.8	312.6	3 015.4	110.7	214	
2 079.2	40.2	396.6	483.8	100	84	8.3	119.8	312.6	3 015.4	110.7	2141	
62 786.4	2 027.7	7 642.8	6 938.1	(NA)	(NA)	717.4	9 046.1	18 550.2	47 515.4	1 579.0	22	
5 508.3	198.9	770.0	730.1	(NA)	(NA)	76.9	964.6	1 637.5	3 972.0	297.9	221	
5 508.3	198.9	770.0	730.1	87	88	76.9	964.6	1 637.5	3 972.0	297.9	2211	
8 048.9	314.3	966.1	886.9	(NA)	(NA)	140.8	1 815.2	3 488.6	8 191.2	385.3	222	
8 048.9	314.3	966.1	886.9	88	91	140.8	1 815.2	3 488.6	8 191.2	385.3	2221	

Table 3. Selected Statistics by Industry Group and Industry: 1987 and 1982—Con.

[Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports

1987 SIC code	Industry group and industry	1987									
		Companies ¹ (number)	All establishments ²		All employees		Production workers			Value added by manu- facture ³ (million dollars)	Cost of materials ⁴ (million dollars)
			Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)		
22	Textile mill products—Con.										
223	Broadwoven fabric mills, wool.....	106	118	68	14.0	235.8	12.2	24.5	183.8	498.0	589.1
2231	Broadwoven fabric mills, wool.....	106	118	68	14.0	235.8	12.2	24.5	183.8	498.0	589.1
224	Narrow fabric mills.....	247	272	166	18.5	295.5	15.7	31.6	210.7	580.1	557.7
2241	Narrow fabric mills.....	247	272	166	18.5	295.5	15.7	31.6	210.7	580.1	557.7
225	Knitting mills.....	1 932	2 127	1 256	203.1	2 988.3	175.6	341.9	2 292.8	6 269.3	7 344.3
2251	Women's hosiery, except socks.....	139	161	93	29.3	385.9	25.9	53.7	321.1	769.5	715.6
2252	Hosiery, n.e.c.....	375	426	276	36.5	467.8	32.5	59.6	372.0	960.1	1 008.9
2253	Knit outerwear mills.....	806	824	440	59.0	838.4	50.6	96.9	619.1	1 687.5	1 614.4
2254	Knit underwear mills.....	58	63	44	19.3	275.7	17.4	33.1	231.3	516.5	548.3
2257	Wet knit fabric mills.....	304	334	210	34.9	577.7	29.2	57.3	424.6	1 425.6	2 183.0
2258	Lace and warp knit fabric mills.....	216	240	158	20.5	387.9	16.8	35.5	286.3	812.2	1 181.0
2259	Knitting mills, n.e.c.....	79	79	35	3.8	54.7	3.2	5.8	38.3	97.9	93.1
226	Textile finishing, except wool.....	591	648	321	56.1	1 036.0	45.5	94.9	739.6	2 320.5	4 789.7
2261	Finishing plants, cotton.....	184	198	105	16.5	298.5	13.5	27.3	213.6	602.4	790.9
2262	Finishing plants, manmade.....	245	268	123	27.9	545.9	22.3	47.4	387.4	1 251.3	3 183.3
2269	Finishing plants, n.e.c.....	176	182	93	11.7	191.5	9.8	20.1	138.6	466.9	815.5
227	Carpets and rugs.....	419	475	245	53.3	1 039.2	40.6	85.2	691.5	3 060.0	6 815.8
2273	Carpets and rugs.....	419	475	245	53.3	1 039.2	40.6	85.2	691.5	3 060.0	6 815.8
228	Yarn and thread mills.....	387	612	489	113.9	1 849.9	102.9	213.2	1 534.7	3 858.9	6 460.9
2281	Yarn spinning mills.....	241	414	351	89.0	1 453.0	81.1	170.7	1 226.9	3 022.4	4 512.2
2282	Throwing and winding mills.....	121	139	100	18.3	290.8	16.1	31.5	230.7	588.4	1 549.8
2284	Thread mills.....	49	59	38	6.5	106.1	5.6	11.0	77.1	248.1	398.9
229	Miscellaneous textile goods.....	984	1 076	447	52.5	1 109.2	40.6	83.2	730.6	2 867.1	3 588.0
2295	Coated fabrics, not rubberized.....	180	185	91	10.3	251.9	7.4	15.7	161.4	567.1	874.1
2296	Tire cord and fabrics.....	9	13	12	5.1	99.8	4.4	9.1	79.8	396.5	612.9
2297	Nonwoven fabrics.....	111	130	93	13.8	330.6	10.3	21.2	203.8	901.0	1 097.5
2298	Cordage and twine.....	181	197	78	6.9	112.3	5.5	10.8	75.6	283.8	261.1
2299	Textile goods, n.e.c.....	519	551	173	16.4	314.5	13.0	26.4	210.0	718.6	742.3
23	Apparel and other textile products.....	21 301	23 168	9 520	1 080.6	13 903.6	911.5	1 615.5	9 879.2	32 515.6	32 005.5
231	Men's and boys' suits and coats.....	285	337	236	55.2	779.0	48.1	85.8	596.4	1 761.2	1 110.8
2311	Men's and boys' suits and coats.....	285	337	236	55.2	779.0	48.1	85.8	596.4	1 761.2	1 110.8
232	Men's and boys' furnishings.....	1 609	2 194	1 627	279.8	3 245.5	245.9	441.9	2 505.9	8 473.7	7 004.5
2321	Men's and boys' shirts.....	464	601	470	76.7	868.9	66.6	121.8	664.0	2 185.4	1 897.7
2322	Men's and boys' underwear and nightwear.....	71	96	76	17.2	200.1	16.2	29.5	176.4	577.8	465.2
2323	Men's and boys' neckwear.....	139	142	84	7.4	117.0	6.2	11.0	76.8	251.4	223.6
2325	Men's and boys' trousers and slacks.....	313	484	413	93.3	1 102.5	82.3	145.6	856.6	3 273.2	2 742.8
2326	Men's and boys' work clothing.....	172	255	191	33.1	335.6	29.0	50.9	263.0	870.1	665.1
2329	Men's and boys' clothing, n.e.c.....	544	616	393	52.2	621.4	45.6	83.1	469.2	1 315.8	1 010.0
233	Women's and misses' outerwear.....	9 855	10 257	4 217	348.5	4 296.6	290.2	484.8	2 843.6	9 685.9	9 776.1
2331	Women's, misses', and juniors' blouses and shirts.....	1 406	1 496	860	73.4	856.6	63.2	109.0	586.8	1 918.1	1 943.3
2335	Women's, misses', and juniors' dresses.....	5 398	5 471	1 720	112.7	1 359.5	91.5	141.5	859.9	2 889.6	2 582.7
2337	Women's, misses', and juniors' suits and coats.....	1 042	1 092	652	55.2	818.9	44.6	78.0	509.1	1 964.0	2 459.3
2339	Women's, misses', and juniors' outerwear, n.e.c.....	2 087	2 198	985	107.3	1 261.7	90.9	156.3	887.8	2 914.3	2 790.7
234	Women's and children's undergarments.....	435	562	422	67.6	843.8	56.2	103.5	591.0	2 005.9	1 744.0
2341	Women's and children's underwear.....	330	434	334	53.7	644.9	46.5	85.4	488.6	1 429.6	1 229.6
2342	Brassieres, girdles, and allied garments.....	109	128	88	13.8	198.8	9.7	18.2	102.4	576.3	514.4
235	Hats, caps, and millinery.....	441	462	170	17.2	204.4	14.6	26.5	148.4	368.0	294.6
2353	Hats, caps, and millinery.....	441	462	170	17.2	204.4	14.6	26.5	148.4	368.0	294.6
236	Girls' and children's outerwear.....	705	835	572	71.7	825.8	60.9	107.0	609.5	1 983.7	1 788.5
2361	Girls' and children's dresses and blouses.....	401	454	307	30.9	350.4	26.2	45.0	257.0	790.4	736.0
2369	Girls' and children's outerwear, n.e.c.....	312	381	265	40.8	475.4	34.7	62.0	352.5	1 193.3	1 052.6
237	Fur goods.....	380	380	17	2.2	48.2	1.5	2.7	28.1	131.2	292.6
2371	Fur goods.....	380	380	17	2.2	48.2	1.5	2.7	28.1	131.2	292.6
238	Miscellaneous apparel and accessories.....	925	981	434	40.8	517.7	32.9	58.9	341.0	1 151.1	1 093.3
2381	Fabric dress and work gloves.....	63	82	58	4.8	47.9	4.3	7.3	37.4	98.2	80.8
2384	Robes and dressing gowns.....	84	96	74	8.7	101.4	7.3	13.1	70.2	228.0	278.3
2385	Waterproof outerwear.....	58	67	39	6.4	85.5	5.3	9.5	60.9	172.5	162.5
2386	Leather and sheep-lined clothing.....	130	131	32	2.1	33.8	1.7	2.9	22.4	92.1	110.3
2387	Apparel belts.....	263	265	126	10.5	151.0	7.8	14.8	85.6	339.5	294.5
2389	Apparel and accessories, n.e.c.....	330	340	105	8.3	98.1	6.5	11.5	64.5	220.8	166.9
239	Miscellaneous fabricated textile products.....	6 906	7 160	1 825	197.6	3 142.7	161.4	304.4	2 215.2	6 954.8	8 901.2
2391	Curtains and draperies.....	1 215	1 250	239	27.1	342.7	21.4	39.3	230.0	720.1	823.6
2392	Housefurnishings, n.e.c.....	860	944	402	50.5	713.7	42.8	83.8	518.6	1 759.3	2 816.4
2393	Textile bags.....	252	262	116	8.8	118.0	7.3	13.5	76.3	239.9	336.4
2394	Canvas and related products.....	1 251	1 274	197	16.7	271.0	12.6	23.9	171.5	550.7	525.8
2395	Pleating and stitching.....	682	685	169	14.1	174.4	11.8	20.9	120.1	396.8	346.1
2396	Automotive and apparel trimmings.....	1 535	1 558	338	44.2	994.4	35.5	66.9	737.3	2 023.7	2 568.4
2397	Schiffli machine embroideries.....	266	271	53	5.9	98.2	5.0	9.6	71.3	167.0	137.6
2399	Fabricated textile products, n.e.c.....	885	916	311	30.5	430.2	25.0	46.7	290.1	1 097.2	1 346.8

See footnotes at end of table.

were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 — Con.						1982						1987 SIC code
Value of shipments ⁴ (million dollars)	New capital expenditures ⁵ (million dollars)	Inventories ³		Ratios		All employees		Value added by manu- facture (million dollars)	Value of shipments ⁴ (million dollars)	New capital expend- itures ⁵ (million dollars)		
		End of year (million dollars)	Beginning of year (million dollars)	Special- ization (percent)	Coverage (percent)	Number (1,000)	Payroll (million dollars)					
1 050.7	40.1	198.6	153.2	(NA)	(NA)	13.1	175.8	349.4	762.8	27.7	22	
1 050.7	40.1	198.6	153.2	90	82	13.1	175.8	349.4	762.8	27.7	223	
1 135.7	32.5	193.4	191.6	(NA)	(NA)	17.5	215.5	464.7	851.8	22.3	224	
1 135.7	32.5	193.4	191.6	96	92	17.5	215.5	464.7	851.8	22.3	2241	
13 530.5	388.1	1 728.8	1 621.4	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	225	
1 497.5	32.3	182.1	196.0	98	96	30.2	311.1	777.4	1 411.3	26.0	2251	
1 952.1	64.6	273.3	251.1	98	98	32.6	326.5	617.3	1 443.4	31.4	2252	
3 264.9	94.0	545.8	495.3	94	90	66.8	741.4	1 704.8	3 182.4	53.5	2253	
1 058.1	27.7	174.2	166.4	72	92	22.3	232.3	446.2	829.9	9.3	2254	
3 578.5	95.8	295.8	248.7	94	95	31.1	420.9	850.4	2 538.8	68.8	2257	
1 991.9	67.3	220.9	230.7	97	92	21.1	286.4	580.4	1 538.0	44.9	2258	
187.6	6.6	36.7	33.3	98	79	2.9	33.8	55.4	114.5	1.5	2259	
7 041.6	172.6	677.1	567.1	(NA)	(NA)	58.1	834.0	1 590.3	4 971.9	118.1	226	
1 385.0	48.4	168.1	150.9	85	73	11.6	161.8	256.1	753.8	24.0	2261	
4 391.9	98.5	373.4	308.3	79	91	34.4	514.8	999.0	3 186.2	79.0	2262	
1 264.8	25.8	135.5	107.9	93	97	12.0	157.3	335.1	1 031.9	15.1	2269	
9 795.0	222.8	1 288.7	1 146.7	(NA)	(NA)	41.8	603.1	1 711.7	5 807.8	83.9	227	
9 795.0	222.8	1 288.7	1 146.7	97	99	41.8	603.1	1 711.7	5 807.8	83.9	2273	
10 277.3	397.5	923.1	838.2	(NA)	(NA)	108.6	1 277.8	2 318.2	7 036.4	231.1	228	
7 517.5	340.2	639.3	592.7	95	91	76.0	891.5	1 575.0	4 512.9	156.6	2281	
2 124.2	43.2	176.3	149.9	92	86	22.8	273.0	527.4	1 944.7	59.0	2282	
635.6	14.1	107.5	95.7	96	89	9.8	113.2	215.5	578.8	15.3	2284	
6 398.2	260.8	897.2	802.8	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	229	
1 433.7	63.4	224.9	208.7	87	91	11.0	198.5	435.2	1 115.0	28.4	2295	
1 005.0	5.5	73.0	72.0	(D)	(D)	6.5	90.5	289.9	981.5	6.2	2296	
1 966.1	94.8	279.9	233.4	(D)	71	12.3	198.8	544.4	1 278.7	78.7	2297	
541.1	12.0	94.1	90.0	94	97	6.6	77.0	181.5	358.7	17.0	2298	
1 452.4	85.1	225.3	198.7	95	88	17.3	242.8	507.0	1 129.2	47.0	2299	
64 242.6	736.4	8 974.0	8 422.4	(NA)	(NA)	1 189.0	12 128.8	26 060.5	53 387.9	654.3	23	
2 863.3	29.1	511.0	480.6	(NA)	(NA)	75.2	878.2	1 683.0	3 061.5	24.6	231	
2 863.3	29.1	511.0	480.6	(D)	(D)	75.2	878.2	1 683.0	3 061.5	24.6	2311	
15 440.7	188.7	2 165.4	2 077.5	(NA)	(NA)	298.9	2 836.6	6 621.2	12 727.1	157.4	232	
4 075.0	51.7	513.3	492.0	86	87	(NA)	(NA)	(NA)	(NA)	(NA)	2321	
1 045.4	7.6	103.5	102.6	84	88	(NA)	(NA)	(NA)	(NA)	(NA)	2322	
475.6	6.2	58.6	58.4	99	99	6.7	82.2	183.8	335.0	4.9	2323	
6 013.6	74.5	786.1	768.1	84	92	(NA)	(NA)	(NA)	(NA)	(NA)	2325	
1 541.6	14.3	204.3	205.6	85	90	(NA)	(NA)	(NA)	(NA)	(NA)	2326	
2 289.6	34.4	499.6	450.8	(D)	(D)	44.6	432.8	931.3	1 658.3	18.3	2329	
19 388.9	161.0	2 380.2	2 208.0	(NA)	(NA)	418.9	4 110.4	8 576.1	18 224.5	213.1	233	
3 831.2	40.1	437.9	383.5	81	72	92.2	874.7	1 837.8	3 884.2	29.4	2331	
5 447.8	31.4	586.6	549.3	95	90	137.9	1 268.3	2 413.2	4 623.3	68.1	2335	
4 446.6	24.5	587.8	593.3	74	77	78.2	871.1	2 067.1	4 886.7	30.5	2337	
5 663.4	65.0	767.9	681.8	80	74	110.7	1 096.3	2 257.9	4 830.4	85.2	2339	
3 738.2	51.6	651.6	629.1	(NA)	(NA)	81.6	783.1	1 721.5	3 322.7	37.8	234	
2 658.3	44.9	443.9	433.8	88	88	67.8	640.8	1 350.8	2 602.4	30.4	2341	
1 079.9	6.7	207.7	195.3	87	91	13.8	142.3	370.8	720.3	7.5	2342	
662.7	7.2	122.8	124.8	(NA)	(NA)	15.7	156.7	285.3	522.3	8.1	235	
662.7	7.2	122.8	124.8	96	99	15.7	156.7	285.3	522.3	8.1	2353	
3 753.1	34.7	580.5	553.3	(NA)	(NA)	71.3	671.2	1 445.8	2 711.4	30.1	236	
1 518.6	12.5	199.3	188.5	83	78	37.7	357.3	745.9	1 417.7	11.6	2361	
2 234.5	22.1	381.2	364.8	73	82	33.7	313.9	699.9	1 293.7	18.5	2369	
422.6	1.2	79.6	78.2	(NA)	(NA)	3.4	59.6	131.6	419.3	.3	237	
422.6	1.2	79.6	78.2	100	100	3.4	59.6	131.6	419.3	.3	2371	
2 229.4	14.9	385.4	355.9	(NA)	(NA)	50.0	512.5	1 097.5	2 118.2	24.7	238	
180.8	1.5	32.6	32.6	96	84	6.8	51.2	104.7	208.4	3.4	2381	
502.6	3.3	67.1	64.3	89	73	9.3	88.0	193.1	403.6	3.9	2384	
333.0	3.2	53.8	50.6	91	86	9.3	101.1	246.0	449.2	4.6	2385	
201.8	.9	30.9	30.3	96	97	4.3	48.9	95.7	221.3	.9	2386	
627.8	3.1	111.2	96.3	93	94	11.7	137.1	305.4	556.5	8.3	2387	
383.4	2.9	89.9	81.7	91	67	8.7	86.2	152.7	279.2	3.6	2389	
15 743.8	248.0	2 097.5	1 915.0	(NA)	(NA)	173.8	2 120.3	4 498.4	10 280.8	157.9	239	
1 539.6	14.9	203.4	197.9	94	93	24.1	233.7	442.1	1 062.0	6.3	2391	
4 530.0	44.2	737.1	655.5	94	90	49.3	518.2	1 249.0	3 262.2	38.8	2392	
571.5	5.8	107.5	100.9	91	87	7.7	89.5	167.8	421.8	5.9	2393	
1 066.2	20.1	170.7	161.5	94	96	14.8	181.2	367.7	752.3	17.8	2394	
728.0	12.1	113.5	92.3	84	97	(NA)	(NA)	(NA)	(NA)	(NA)	2395	
4 564.5	111.9	396.0	353.8	99	96	(NA)	(NA)	(NA)	(NA)	(NA)	2396	
302.0	5.9	38.2	37.3	94	98	7.0	97.4	188.9	303.3	7.4	2397	
2 442.1	33.1	331.0	315.9	96	92	25.1	290.7	629.9	1 475.9	23.5	2399	

Table 3. Selected Statistics by Industry Group and Industry: 1987 and 1982—Con.

[Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports

1987 SIC code	Industry group and industry	1987									
		All establishments ²			All employees		Production workers			Value added by manu- facture ³ (million dollars)	Cost of materials ⁴ (million dollars)
		Companies ¹ (number)	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)		
24	Lumber and wood products -----	32 014	33 987	7 370	698.4	12 706.5	581.3	1 151.2	9 523.7	28 664.6	41 258.8
241	Logging -----	11 852	11 937	804	85.8	1 517.6	72.2	131.4	1 200.7	4 082.5	6 853.1
2411	Logging -----	11 852	11 937	804	85.8	1 517.6	72.2	131.4	1 200.7	4 082.5	6 853.1
242	Sawmills and planing mills -----	6 135	6 712	2 075	180.1	3 296.8	157.2	329.2	2 675.9	7 672.2	11 588.6
2421	Sawmills and planing mills, general -----	5 252	5 741	1 700	148.3	2 823.5	129.1	272.7	2 304.8	6 758.1	10 636.0
2426	Hardwood dimension and flooring mills -----	696	737	343	29.7	440.8	26.2	53.2	345.4	853.9	866.7
2429	Special product sawmills, n.e.c. -----	219	234	32	2.2	32.6	1.9	3.2	25.7	60.1	86.0
243	Millwork, plywood, and structural members -----	7 471	7 933	2 326	240.0	4 658.1	196.4	395.9	3 423.9	9 896.3	12 825.8
2431	Millwork -----	2 640	2 783	856	89.0	1 809.2	71.6	140.6	1 303.6	3 932.9	5 467.3
2434	Wood kitchen cabinets -----	3 644	3 714	669	67.0	1 185.0	53.7	107.9	833.4	2 495.9	1 909.4
2435	Hardwood veneer and plywood -----	274	311	214	20.5	340.1	17.4	35.3	246.9	751.4	1 322.4
2436	Softwood veneer and plywood -----	131	232	191	38.9	889.1	35.2	77.0	767.6	1 945.2	2 966.8
2439	Structural wood members, n.e.c. -----	831	893	396	24.6	434.7	18.5	35.1	272.3	770.8	1 159.9
244	Wood containers -----	2 169	2 217	561	37.0	483.0	31.2	55.6	345.7	874.9	1 198.4
2441	Nailed wood boxes and shooks -----	304	308	95	5.9	84.7	4.9	9.0	57.4	146.5	182.0
2448	Wood pallets and skids -----	1 678	1 701	415	25.7	328.0	21.7	38.0	237.9	616.8	880.2
2449	Wood containers, n.e.c. -----	198	208	51	5.4	70.4	4.7	8.6	50.4	111.6	136.2
245	Wood buildings and mobile homes -----	808	1 084	577	65.3	1 214.5	50.9	97.3	789.1	2 489.0	4 097.0
2451	Mobile homes -----	207	395	315	39.9	741.2	32.4	62.4	511.1	1 466.0	2 639.9
2452	Prefabricated wood buildings -----	604	689	262	25.4	473.4	18.5	34.9	278.1	1 023.0	1 457.2
249	Miscellaneous wood products -----	3 827	4 104	1 027	90.1	1 536.4	73.4	141.8	1 088.3	3 649.7	4 696.0
2491	Wood preserving -----	456	540	202	11.8	207.7	9.1	18.2	140.6	552.6	1 620.1
2493	Reconstituted wood products -----	158	240	154	22.0	504.5	17.7	37.1	370.4	1 371.1	1 488.9
2499	Wood products, n.e.c. -----	3 223	3 324	671	56.3	824.2	46.7	86.5	577.4	1 726.0	1 587.0
25	Furniture and fixtures -----	10 775	11 636	4 072	510.8	9 082.1	409.8	804.8	6 253.1	20 310.4	17 324.0
251	Household furniture -----	5 085	5 614	2 074	284.2	4 451.7	240.8	470.6	3 285.3	9 486.1	9 187.6
2511	Wood household furniture -----	2 771	2 949	865	135.9	2 017.5	118.9	235.3	1 569.6	4 267.2	3 784.9
2512	Upholstered household furniture -----	1 030	1 150	576	82.1	1 295.2	69.6	132.4	982.7	2 661.0	2 630.9
2514	Metal household furniture -----	374	418	211	30.1	498.0	24.3	47.7	330.4	1 047.6	1 103.0
2515	Mattresses and bedsprings -----	721	839	335	24.4	448.2	17.9	34.8	258.8	1 164.5	1 259.5
2517	Wood television and radio cabinets -----	80	81	36	5.9	91.5	5.1	10.3	70.6	167.5	182.1
2519	Household furniture, n.e.c. -----	175	177	51	5.9	101.4	5.0	10.1	73.2	178.2	227.3
252	Office furniture -----	896	986	439	80.7	1 789.6	60.2	118.0	1 155.4	4 741.2	2 816.9
2521	Wood office furniture -----	625	649	233	31.0	562.2	24.4	48.4	379.0	1 261.8	829.0
2522	Office furniture, except wood -----	291	337	206	49.7	1 227.4	35.8	69.6	776.4	3 479.4	1 987.9
253	Public building and related furniture -----	465	491	209	21.8	396.8	16.6	33.0	259.1	901.1	1 191.3
2531	Public building and related furniture -----	465	491	209	21.8	396.8	16.6	33.0	259.1	901.1	1 191.3
254	Partitions and fixtures -----	2 391	2 459	856	74.1	1 552.1	54.8	110.2	997.6	3 111.8	2 450.0
2541	Wood partitions and fixtures -----	1 833	1 867	557	40.6	861.2	30.3	60.9	566.8	1 609.4	1 212.1
2542	Partitions and fixtures, except wood -----	566	592	299	33.5	691.0	24.6	49.2	430.8	1 502.4	1 237.9
259	Miscellaneous furniture and fixtures -----	2 012	2 086	494	49.9	891.9	37.5	73.1	555.8	2 070.2	1 678.1
2591	Drapery hardware and blinds and shades -----	443	489	142	20.6	342.2	15.9	31.2	223.5	898.8	887.0
2599	Furniture and fixtures, n.e.c. -----	1 569	1 597	352	29.3	549.7	21.6	41.9	332.3	1 171.4	791.1
26	Paper and allied products -----	4 215	6 292	4 144	611.3	16 859.8	465.7	972.1	11 776.2	50 488.8	58 753.1
261	Pulp mills -----	26	39	38	14.2	535.1	11.0	23.9	396.8	2 281.4	2 019.4
2611	Pulp mills -----	26	39	38	14.2	535.1	11.0	23.9	396.8	2 281.4	2 019.4
262	Paper mills -----	122	282	276	129.1	4 597.0	99.2	210.4	3 403.0	14 024.3	14 856.0
2621	Paper mills -----	122	282	276	129.1	4 597.0	99.2	210.4	3 403.0	14 024.3	14 856.0
263	Paperboard mills -----	91	205	200	52.3	1 858.8	40.1	88.5	1 377.3	6 914.3	6 839.7
2631	Paperboard mills -----	91	205	200	52.3	1 858.8	40.1	88.5	1 377.3	6 914.3	6 839.7
265	Paperboard containers and boxes -----	1 729	2 779	1 991	193.5	4 617.7	147.3	304.2	3 054.8	9 820.6	16 138.1
2652	Setup paperboard boxes -----	180	200	120	8.7	131.0	7.2	13.9	88.4	236.0	202.7
2653	Corrugated and solid fiber boxes -----	952	1 600	1 164	105.7	2 609.2	77.2	160.3	1 637.6	5 475.8	10 685.9
2655	Fiber cans, drums, and similar products -----	137	281	187	12.5	280.7	10.1	20.8	204.7	628.2	904.8
2656	Sanitary food containers -----	57	92	72	15.8	341.0	12.9	25.5	253.8	893.8	1 200.1
2657	Folding paperboard boxes -----	461	606	448	50.7	1 255.8	39.9	83.7	870.3	2 586.8	3 144.6
267	Miscellaneous converted paper products -----	2 425	2 987	1 639	222.2	5 251.1	168.2	345.1	3 544.3	17 448.3	18 900.0
2671	Paper coated and laminated, packaging -----	91	120	111	15.0	406.2	10.4	22.0	253.6	997.0	1 442.0
2672	Paper coated and laminated, n.e.c. -----	369	412	226	30.9	838.7	21.1	43.5	502.4	2 861.4	3 034.5
2673	Bags: plastics, laminated, and coated -----	424	483	301	36.6	783.7	29.0	59.8	542.6	2 215.0	2 367.6
2674	Bags: uncoated paper and multiwall -----	76	132	112	17.1	347.8	14.3	29.0	265.0	874.8	1 588.9
2675	Die-cut paper and board -----	374	399	172	15.7	307.8	12.5	24.9	205.3	680.8	1 086.1
2676	Sanitary paper products -----	78	133	111	38.4	1 155.0	29.9	62.5	860.5	6 309.3	5 500.9
2677	Envelopes -----	203	298	215	27.6	612.8	20.8	43.4	407.4	1 192.9	1 403.8
2678	Stationery products -----	170	189	92	11.2	205.9	8.5	16.4	135.3	520.7	690.8
2679	Converted paper products, n.e.c. -----	743	821	299	29.6	593.1	21.5	43.5	372.0	1 796.3	1 785.3
27	Printing and publishing -----	57 376	61 791	12 616	1 494.0	33 440.0	797.1	1 537.6	15 658.9	90 162.2	46 371.9
271	Newspapers -----	7 473	9 091	2 619	434.4	9 021.7	148.4	262.4	2 985.1	24 311.3	7 533.6
2711	Newspapers -----	7 473	9 091	2 619	434.4	9 021.7	148.4	262.4	2 985.1	24 311.3	7 533.6
272	Periodicals -----	3 759	4 020	876	110.0	2 982.7	18.3	32.4	358.2	11 452.1	5 872.7
2721	Periodicals -----	3 759	4 020	876	110.0	2 982.7	18.3	32.4	358.2	11 452.1	5 872.7
273	Books -----	2 688	2 859	693	113.6	2 821.2	50.3	96.5	981.7	11 107.1	4 932.4
2731	Book publishing -----	2 182	2 298	424	70.1	1 859.8	15.9	28.7	306.1	9 110.7	3 663.2
2732	Book printing -----	519	561	269	43.5	961.4	34.4	67.7	675.6	1 996.5	1 269.3

See footnotes at end of table.

were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987—Con.						1982						1987 SIC code
Value of shipments ⁴ (million dollars)	New capital expenditures ⁵ (million dollars)	Inventories ³		Ratios		All employees		Value added by manu- facture (million dollars)	Value of shipments ⁴ (million dollars)	New capital expend- itures ⁵ (million dollars)		
		End of year (million dollars)	Beginning of year (million dollars)	Special- ization (percent)	Coverage (percent)	Number (1,000)	Payroll (million dollars)					
69 746.7	1 825.2	7 229.8	6 871.9	(NA)	(NA)	576.4	8 444.5	15 376.6	42 934.9	1 342.4	24	
10 938.2	349.3	589.2	586.1	(NA)	(NA)	80.8	1 207.9	2 501.9	8 274.0	249.0	241	
10 938.2	349.3	589.2	586.1	98	95	80.8	1 207.9	2 501.9	8 274.0	249.0	2411	
19 220.3	581.7	2 504.4	2 378.2	(NA)	(NA)	157.7	2 305.9	3 747.9	11 132.4	435.6	242	
17 357.1	512.2	2 215.8	2 116.8	95	94	131.9	2 020.2	3 237.5	10 065.2	408.4	2421	
											2426	
1 714.0	66.3	269.1	238.9	91	91	22.9	252.6	445.4	912.6	24.3		
149.2	3.2	19.5	22.5	99	95	3.0	33.1	65.0	154.6	2.9	2429	
											243	
22 614.1	473.5	2 358.2	2 187.4	(NA)	(NA)	165.3	2 596.1	4 460.4	11 682.8	261.6		
9 326.9	184.4	1 226.5	1 116.9	95	96	56.8	895.4	1 712.6	4 248.3	79.9	2431	
4 378.2	101.0	447.0	400.8	96	98	43.6	606.9	1 144.3	2 060.7	43.8	2434	
2 060.5	31.3	288.1	258.8	92	96	17.8	241.0	441.3	1 304.4	22.2	2435	
4 919.6	110.2	237.1	255.9	87	95	34.9	667.3	831.5	3 221.5	99.7	2436	
1 928.8	46.5	159.6	155.0	97	95	12.2	185.5	330.5	847.9	16.1	2439	
2 069.4	52.2	192.5	180.5	(NA)	(NA)	35.8	390.9	703.0	1 634.9	40.0	244	
325.0	5.5	37.0	31.8	91	79	6.4	76.5	137.9	306.8	6.9	2441	
1 496.1	43.8	115.6	103.6	93	94	22.1	230.4	420.5	1 012.3	29.4	2448	
248.3	2.8	39.9	45.1	92	96	7.4	84.0	144.6	315.8	3.7	2449	
6 574.7	100.3	473.0	452.9	(NA)	(NA)	59.6	880.1	1 740.8	4 955.4	65.1	245	
4 102.4	42.8	217.7	203.9	99	100	42.8	622.4	1 187.4	3 606.4	47.7	2451	
2 472.2	57.5	255.3	249.1	95	98	16.8	257.8	553.4	1 349.0	17.4	2452	
8 330.0	268.3	1 112.5	1 086.9	(NA)	(NA)	77.1	1 063.5	2 222.6	5 255.4	291.1	249	
2 169.6	44.1	365.5	365.8	97	95	10.9	159.4	383.7	1 360.2	35.9	2491	
2 864.9	149.9	257.2	258.3	98	95	(NA)	(NA)	(NA)	(NA)	(NA)	2493	
3 295.5	74.3	489.8	462.9	95	94	(NA)	(NA)	(NA)	(NA)	(NA)	2499	
37 461.9	894.9	5 406.8	5 012.2	(NA)	(NA)	436.0	6 083.7	12 828.9	24 128.6	566.2	25	
18 558.6	377.2	2 794.2	2 547.5	(NA)	(NA)	263.0	3 161.7	6 455.0	12 775.8	245.9	251	
7 982.0	196.9	1 552.2	1 417.7	95	97	125.6	1 402.7	2 715.0	5 056.6	119.1	2511	
5 263.1	77.4	569.2	497.3	90	96	70.6	849.9	1 745.3	3 505.3	57.2	2512	
2 141.2	37.7	385.8	359.8	88	94	27.0	362.4	807.0	1 590.7	25.4	2514	
2 417.3	34.2	213.2	201.4	95	83	25.4	357.4	882.4	1 935.4	25.0	2515	
351.1	7.0	34.5	34.1	87	82	7.0	88.6	152.1	306.6	7.3	2517	
403.9	24.1	39.4	37.2	88	83	7.4	100.7	153.3	381.1	11.9	2519	
7 537.6	282.4	987.3	928.0	(NA)	(NA)	58.7	1 050.9	2 476.9	4 150.1	146.8	252	
2 084.1	48.3	341.7	328.9	93	91	21.0	296.1	659.0	1 087.4	32.6	2521	
5 453.6	234.1	645.7	599.1	94	96	37.8	754.8	1 817.9	3 062.7	114.2	2522	
2 088.3	45.0	222.9	208.9	(NA)	(NA)	18.8	294.9	578.8	1 102.8	24.8	253	
2 088.3	45.0	222.9	208.9	92	92	18.8	294.9	578.8	1 102.8	24.8	2531	
5 537.2	124.9	796.9	754.0	(NA)	(NA)	59.7	1 025.0	2 079.5	3 709.9	87.3	254	
2 815.9	65.7	347.5	337.4	94	90	31.7	543.0	1 017.1	1 766.7	39.2	2541	
											2542	
2 721.3	59.2	449.4	416.6	89	93	28.0	482.0	1 062.5	1 943.2	48.1		
3 740.1	65.5	605.4	573.8	(NA)	(NA)	35.8	551.1	1 238.7	2 390.1	61.3	259	
											2591	
1 780.4	27.3	338.7	306.9	99	96	15.7	223.7	556.6	1 114.4	31.3		
1 959.7	38.2	266.7	266.9	93	90	20.1	327.4	682.0	1 275.7	30.0	2599	
108 988.7	5 752.5	11 111.0	10 198.9	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	26	
4 313.7	231.2	406.8	402.0	(NA)	(NA)	16.7	467.5	1 113.8	3 110.4	658.6	261	
4 313.7	231.2	406.8	402.0	87	69	16.7	467.5	1 113.8	3 110.4	658.6	2611	
28 918.0	2 759.9	2 748.0	2 597.5	(NA)	(NA)	129.0	3 430.6	8 954.1	20 994.6	1 856.1	262	
28 918.0	2 759.9	2 748.0	2 597.5	91	96	129.0	3 430.6	8 954.1	20 994.6	1 856.1	2621	
13 729.7	772.6	843.5	771.8	(NA)	(NA)	55.6	1 501.5	3 739.8	9 531.1	1 286.7	263	
13 729.7	772.6	843.5	771.8	91	90	55.6	1 501.5	3 739.8	9 531.1	1 286.7	2631	
25 862.6	789.1	2 961.0	2 617.1	(NA)	(NA)	187.5	3 516.7	7 395.8	19 192.3	496.1	265	
436.5	10.3	50.8	46.7	96	77	10.6	134.7	250.2	433.2	10.0	2652	
16 104.0	468.8	1 528.2	1 275.3	99	99	94.4	1 861.8	3 659.0	10 558.1	283.5	2653	
											2655	
1 533.9	34.0	163.3	144.3	92	93	14.1	252.5	574.5	1 473.5	31.1		
2 083.0	95.5	317.4	294.0	87	88	(NA)	(NA)	(NA)	(NA)	(NA)	2656	
5 705.3	180.5	901.4	856.7	95	96	(NA)	(NA)	(NA)	(NA)	(NA)	2657	
											267	
36 164.8	1 199.7	4 151.7	3 810.6	(NA)	(NA)	213.3	3 960.6	12 014.1	26 700.7	786.2	2671	
2 416.0	128.3	358.2	316.6	85	82	(NA)	(NA)	(NA)	(NA)	(NA)		
5 891.7	201.3	678.0	638.4	87	87	(NA)	(NA)	(NA)	(NA)	(NA)	2672	
											2673	
4 576.9	199.1	587.6	516.6	81	91	(NA)	(NA)	(NA)	(NA)	(NA)	2674	
2 448.0	46.2	326.1	298.1	94	95	(NA)	(NA)	(NA)	(NA)	(NA)		
1 749.3	33.4	230.4	210.8	90	88	15.9	245.9	708.7	1 680.1	32.7	2675	
11 698.4	430.4	809.0	691.6	96	99	36.7	863.3	4 341.0	9 086.0	271.1	2676	
2 598.1	61.3	303.6	301.0	98	96	24.4	428.7	853.6	1 771.3	45.1	2677	
1 216.4	25.1	255.7	260.5	74	74	12.6	193.1	433.1	1 034.0	21.4	2678	
3 570.1	74.5	603.1	576.9	91	89	30.4	496.3	1 291.3	2 637.7	74.3	2679	
136 195.6	4 908.4	9 940.6	9 317.9	(NA)	(NA)	1 291.8	22 706.9	54 423.4	85 796.9	3 213.2	27	
31 850.1	1 522.7	857.1	777.9	(NA)	(NA)	401.5	6 554.7	15 275.3	21 276.3	1 029.2	271	
31 850.1	1 522.7	857.1	777.9	97	100	401.5	6 554.7	15 275.3	21 276.3	1 029.2	2711	
17 329.2	246.4	899.2	893.3	(NA)	(NA)	94.0	1 986.1	6 910.9	11 478.0	194.8	272	
17 329.2	246.4	899.2	893.3	95	96	94.0	1 986.1	6 910.9	11 478.0	194.8	2721	
15 875.8	394.2	2 387.9	2 207.5	(NA)	(NA)	111.7	2 089.8	6 721.4	10 132.4	272.7	273	
12 619.5	239.7	2 090.9	1 921.1	92	95	67.1	1 327.3	5 291.5	7 740.0	174.1	2731	
3 256.3	154.4	297.0	286.4	89	88	44.7	762.5	1 429.9	2 392.4	98.6	2732	

Table 3. Selected Statistics by Industry Group and Industry: 1987 and 1982—Con.

[Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports

1987 SIC code	Industry group and industry	1987									Value added by manu- facture ³ (million dollars)	Cost of materials ⁴ (million dollars)
		All establishments ²			All employees		Production workers					
		Companies ¹ (number)	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)			
27	Printing and publishing—Con.											
274	Miscellaneous publishing	2 129	2 369	598	69.5	1 513.1	23.8	43.3	359.6	6 023.0	1 791.0	
2741	Miscellaneous publishing	2 129	2 369	598	69.5	1 513.1	23.8	43.3	359.6	6 023.0	1 791.0	
275	Commercial printing	35 140	36 111	5 583	553.4	12 301.3	401.3	794.4	7 889.6	25 019.2	19 867.3	
2752	Commercial printing, lithographic	24 327	24 984	4 105	403.9	9 154.4	293.7	581.9	5 900.3	18 232.1	14 647.0	
2754	Commercial printing, gravure	304	332	91	23.8	668.5	19.1	39.6	494.2	1 534.2	1 545.5	
2759	Commercial printing, n.e.c.	10 608	10 795	1 387	125.8	2 478.5	88.5	172.9	1 495.1	5 252.9	3 674.8	
276	Manifold business forms	603	856	589	53.3	1 280.5	37.3	77.3	824.9	3 894.1	3 506.1	
2781	Manifold business forms	603	856	589	53.3	1 280.5	37.3	77.3	824.9	3 894.1	3 506.1	
277	Greeting cards	147	162	64	21.5	471.1	11.9	21.7	207.1	2 203.9	773.9	
2771	Greeting cards	147	162	64	21.5	471.1	11.9	21.7	207.1	2 203.9	773.9	
278	Blankbooks and bookbinding	1 357	1 546	695	68.8	1 264.8	54.2	105.8	855.9	2 926.9	1 173.2	
2782	Blankbooks and looseleaf binders	348	510	326	39.1	767.6	29.5	57.6	496.5	2 020.4	897.5	
2789	Bookbinding and related work	1 011	1 036	369	29.7	497.2	24.7	48.2	359.4	906.5	275.6	
279	Printing trade services	4 630	4 777	899	69.4	1 783.5	51.6	103.8	1 196.8	3 224.6	921.9	
2791	Typesetting	3 317	3 364	437	37.6	809.2	29.5	58.4	565.0	1 471.1	309.7	
2796	Platemaking services	1 326	1 413	462	31.8	974.4	22.1	45.4	631.8	1 753.5	612.2	
28	Chemicals and allied products	8 313	12 039	4 895	814.0	25 016.3	462.9	944.7	12 312.5	120 777.6	109 231.1	
281	Industrial inorganic chemicals	601	1 393	529	93.6	3 098.7	50.2	101.5	1 513.1	11 240.4	8 503.0	
2812	Alkalies and chlorine	27	45	31	5.0	165.3	3.5	7.3	110.0	732.1	809.0	
2813	Industrial gases	103	594	135	8.1	241.4	4.0	8.5	115.3	1 572.5	1 052.9	
2816	Inorganic pigments	70	92	55	8.3	286.8	5.1	10.5	148.9	1 398.1	1 001.6	
2819	Industrial inorganic chemicals, n.e.c.	427	662	308	72.2	2 425.2	37.5	75.2	1 138.9	7 537.7	5 639.5	
282	Plastics materials and synthetics	375	626	420	122.5	4 012.8	83.8	176.6	2 449.9	17 737.5	23 269.1	
2821	Plastics materials and resins	288	480	320	56.3	2 005.8	34.9	75.6	1 152.2	10 872.9	15 410.4	
2822	Synthetic rubber	58	68	31	10.4	394.6	6.7	14.4	228.7	1 248.7	2 082.5	
2823	Cellulosic manmade fibers	6	7	7	10.5	280.7	7.9	16.5	180.7	636.7	669.7	
2824	Organic fibers, noncellulosic	46	71	62	45.4	1 331.8	34.2	70.0	888.3	4 979.1	5 106.5	
283	Drugs	1 107	1 356	660	171.9	5 303.8	79.6	155.1	1 895.9	28 160.6	11 409.9	
2833	Medicinals and botanicals	208	225	84	11.6	376.5	6.1	12.0	183.8	1 780.7	1 613.4	
2834	Pharmaceutical preparations	640	732	364	131.6	4 168.1	59.9	117.5	1 458.8	23 883.6	8 463.0	
2835	Diagnostic substances	137	158	98	15.4	437.1	6.8	13.6	146.0	1 553.3	657.4	
2836	Biological products, except diagnostic	174	241	114	13.3	322.1	6.8	12.1	107.3	943.0	676.1	
284	Soaps, cleaners, and toilet goods	2 144	2 401	813	119.2	3 098.9	72.2	145.7	1 581.5	21 651.8	13 196.1	
2841	Soap and other detergents	683	764	230	31.7	955.7	19.3	39.2	541.4	5 892.1	5 673.4	
2842	Polishes and sanitation goods	669	726	213	20.6	500.4	13.2	26.5	262.1	3 654.1	1 943.8	
2843	Surface active agents	184	217	99	9.1	289.8	4.7	10.0	133.7	1 318.0	1 683.7	
2844	Toilet preparations	648	694	271	57.9	1 353.1	35.1	69.9	644.3	10 787.6	3 895.2	
285	Paints and allied products	1 121	1 428	626	55.2	1 491.6	28.3	56.3	628.2	6 220.7	6 509.9	
2851	Paints and allied products	1 121	1 428	626	55.2	1 491.6	28.3	56.3	628.2	6 220.7	6 509.9	
286	Industrial organic chemicals	639	962	581	125.7	4 541.3	73.4	154.2	2 439.0	21 153.2	30 003.6	
2861	Gum and wood chemicals	52	77	29	2.6	57.4	2.1	4.1	42.0	212.6	275.4	
2865	Cyclic crudes and intermediates	131	186	121	22.8	786.6	13.4	27.6	434.9	3 414.2	5 502.7	
2869	Industrial organic chemicals, n.e.c.	491	699	431	100.3	3 697.2	57.9	122.4	1 962.2	17 526.4	24 225.5	
287	Agricultural chemicals	667	970	334	40.3	1 170.8	24.4	50.9	622.5	6 339.8	7 796.5	
2873	Nitrogenous fertilizers	117	164	72	7.4	222.8	4.5	9.6	125.2	874.7	1 503.5	
2874	Phosphatic fertilizers	55	77	42	9.4	284.5	6.2	13.3	172.1	1 169.3	2 609.6	
2875	Fertilizers, mixing only	307	452	115	7.5	145.2	4.7	9.6	71.8	464.3	1 240.4	
2879	Agricultural chemicals, n.e.c.	233	277	105	16.1	518.3	9.1	18.5	253.3	3 831.5	2 442.9	
289	Miscellaneous chemical products	2 164	2 903	932	85.4	2 298.4	51.0	104.4	1 182.6	8 273.6	8 542.9	
2891	Adhesives and sealants	537	714	274	20.9	552.8	11.8	24.2	256.2	1 996.1	2 694.8	
2892	Explosives	77	132	45	13.8	349.2	9.2	17.9	204.9	758.4	362.6	
2893	Printing ink	224	504	185	11.1	310.9	6.2	13.0	152.9	985.1	1 410.5	
2895	Carbon black	7	22	21	1.8	64.7	1.4	3.0	46.2	272.6	306.8	
2899	Chemical preparations, n.e.c.	1 366	1 531	407	37.9	1 020.9	22.4	46.2	522.3	4 261.4	3 768.2	
29	Petroleum and coal products	1 320	2 232	753	115.9	3 996.2	76.4	158.0	2 458.7	18 518.3	112 776.8	
291	Petroleum refining	200	308	221	74.6	2 845.0	50.0	103.3	1 796.7	14 218.9	104 800.9	
2911	Petroleum refining	200	308	221	74.6	2 845.0	50.0	103.3	1 796.7	14 218.9	104 800.9	
295	Asphalt paving and roofing materials	693	1 367	345	28.1	785.7	19.7	41.1	504.0	2 886.9	4 905.4	
2951	Asphalt paving mixtures and blocks	542	1 101	200	14.6	430.8	10.0	20.9	266.7	1 602.9	2 758.2	
2952	Asphalt felts and coatings	162	266	145	13.5	354.9	9.7	20.2	237.3	1 284.1	2 147.2	
299	Miscellaneous petroleum and coal products	459	557	187	13.1	365.4	6.7	13.7	158.0	1 412.5	3 070.4	
2992	Lubricating oils and greases	372	451	163	11.2	311.8	5.5	11.1	124.2	1 143.2	2 629.8	
2999	Petroleum and coal products, n.e.c.	92	106	24	1.9	53.6	1.2	2.6	33.9	269.3	440.6	
30	Rubber and miscellaneous plastics products	12 149	14 589	7 302	831.4	17 581.4	643.5	1 283.4	11 697.2	44 436.8	42 516.5	
301	Tires and inner tubes	114	163	97	65.4	2 069.9	52.6	103.7	1 596.3	5 559.4	4 864.9	
3011	Tires and inner tubes	114	163	97	65.4	2 069.9	52.6	103.7	1 596.3	5 559.4	4 864.9	
302	Rubber and plastics footwear	54	65	38	10.9	153.3	9.1	16.6	103.5	315.8	252.4	
3021	Rubber and plastics footwear	54	65	38	10.9	153.3	9.1	16.6	103.5	315.8	252.4	
305	Hose and belting and gaskets and packing	561	684	380	51.6	1 158.5	36.5	74.0	717.9	2 657.1	2 009.0	
3052	Rubber and plastics hose and belting	127	188	122	23.2	531.4	16.6	33.3	342.4	1 240.8	1 028.2	
3053	Gaskets, packing, and sealing devices	439	496	258	28.4	627.1	19.9	40.7	375.5	1 416.2	980.8	
306	Fabricated rubber products, n.e.c.	1 379	1 633	788	104.1	2 245.1	78.5	161.1	1 450.4	4 815.0	4 427.3	
3061	Mechanical rubber goods	537	624	328	49.8	1 092.2	37.9	77.6	725.8	2 208.5	1 755.6	
3069	Fabricated rubber products, n.e.c.	867	1 009	460	54.3	1 152.9	40.6	83.5	724.6	2 606.5	2 671.7	

See footnotes at end of table.

were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987—Con.						1982						1987 SIC code
Value of shipments ⁴ (million dollars)	New capital expenditures ⁵ (million dollars)	Inventories ³		Ratios		All employees		Value added by manu- facture (million dollars)	Value of shipments ⁴ (million dollars)	New capital expend- itures ⁵ (million dollars)		
		End of year (million dollars)	Beginning of year (million dollars)	Special- ization (percent)	Coverage (percent)	Number (1,000)	Payroll (million dollars)					
7 809.5	133.0	467.9	459.7	(NA)	(NA)	45.3	705.9	1 958.2	2 871.3	67.1	27	
7 809.5	133.0	467.9	459.7	98	91	45.3	705.9	1 958.2	2 871.3	67.1	274	
44 786.1	2 013.1	3 486.0	3 259.3	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	275	
32 832.0	1 538.5	2 412.7	2 282.5	94	94	311.9	5 746.4	11 045.1	19 441.6	958.1	2752	
3 059.8	175.5	292.8	256.5	85	94	(NA)	(NA)	(NA)	(NA)	(NA)	2754	
8 894.3	299.0	780.5	720.3	92	87	(NA)	(NA)	(NA)	(NA)	(NA)	2759	
7 397.1	207.8	789.9	762.2	(NA)	(NA)	49.5	934.0	2 490.7	5 058.7	135.4	276	
7 397.1	207.8	789.9	762.2	94	97	49.5	934.0	2 490.7	5 058.7	135.4	2761	
2 911.1	65.6	385.6	307.5	(NA)	(NA)	20.8	344.2	1 348.8	1 893.6	37.2	277	
2 911.1	65.6	385.6	307.5	82	95	20.8	344.2	1 348.8	1 893.6	37.2	2771	
4 079.9	135.7	406.6	380.0	(NA)	(NA)	61.2	903.1	1 963.5	2 802.9	77.9	278	
2 903.6	87.4	305.2	286.3	89	93	35.9	564.8	1 379.5	2 039.4	50.5	2782	
1 176.3	48.3	101.4	93.8	95	94	25.4	338.3	584.0	763.5	27.3	2789	
4 156.8	190.0	260.4	270.4	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	279	
1 783.7	73.9	125.8	128.5	96	83	33.7	570.6	1 040.2	1 242.9	64.3	2791	
2 373.1	116.1	134.6	141.9	96	90	(NA)	(NA)	(NA)	(NA)	(NA)	2796	
229 546.1	8 710.6	26 387.5	25 557.8	(NA)	(NA)	872.6	20 835.7	77 314.8	170 736.9	9 086.8	28	
19 773.8	794.2	1 897.0	1 910.7	(NA)	(NA)	107.7	2 795.2	8 828.5	17 280.1	999.5	281	
1 547.9	68.4	110.9	116.2	86	65	7.6	215.7	728.8	1 570.5	134.4	2812	
2 617.8	104.3	124.1	108.0	98	94	7.3	174.0	1 055.3	2 019.3	223.7	2813	
2 388.3	115.4	356.0	330.5	94	89	11.2	271.3	723.0	1 630.0	128.9	2816	
13 219.8	506.1	1 306.1	1 356.1	91	80	81.7	2 134.2	6 321.4	12 060.4	512.5	2819	
40 851.4	1 900.6	4 326.0	4 095.6	(NA)	(NA)	141.0	3 450.6	9 401.5	28 428.1	1 676.6	282	
26 245.5	1 247.2	2 494.3	2 420.7	88	81	54.7	1 433.9	4 746.0	15 769.2	898.8	2821	
3 283.0	170.5	415.0	340.9	79	72	11.9	343.7	908.9	3 156.4	246.4	2822	
1 319.7	23.8	128.6	147.4	(D)	(D)	14.2	291.0	428.7	1 239.9	88.4	2823	
10 003.2	459.1	1 288.1	1 186.7	85	97	60.2	1 382.0	3 317.9	8 262.7	442.9	2824	
39 263.4	1 749.1	5 129.0	4 730.1	(NA)	(NA)	165.7	3 965.5	16 980.6	24 695.4	1 248.1	283	
3 350.2	114.5	492.2	453.5	91	69	17.8	463.2	2 054.7	3 397.9	283.6	2833	
32 094.1	1 471.1	3 895.6	3 555.8	90	97	124.4	3 052.5	13 484.0	18 997.6	861.2	2834	
2 205.0	93.5	390.3	385.4	89	68	(NA)	(NA)	(NA)	(NA)	(NA)	2835	
1 614.1	69.9	350.9	335.5	87	75	(NA)	(NA)	(NA)	(NA)	(NA)	2836	
34 747.5	785.2	3 731.1	3 520.0	(NA)	(NA)	127.3	2 581.1	15 281.8	26 031.4	650.1	284	
11 558.5	338.7	1 211.8	1 188.9	80	91	35.4	827.1	4 777.1	9 167.3	261.9	2841	
5 593.9	117.7	445.2	432.2	73	76	23.0	443.7	2 626.2	4 613.7	80.9	2842	
3 002.2	103.4	344.3	331.5	75	75	8.5	208.2	747.8	2 067.2	86.6	2843	
14 592.9	225.5	1 729.9	1 567.4	95	88	60.4	1 102.1	7 130.6	10 183.2	220.7	2844	
12 702.4	275.1	1 548.9	1 496.3	(NA)	(NA)	54.1	1 157.7	3 952.5	9 162.1	219.2	285	
12 702.4	275.1	1 548.9	1 496.3	98	97	54.1	1 157.7	3 952.5	9 162.1	219.2	2851	
51 158.0	2 399.9	6 048.2	6 060.9	(NA)	(NA)	143.6	4 004.7	12 340.5	38 156.8	3 075.3	286	
486.5	35.2	98.3	100.1	87	73	4.5	82.5	215.5	624.2	40.2	2861	
8 859.4	378.8	1 120.0	1 022.8	80	61	(NA)	(NA)	(NA)	(NA)	(NA)	2865	
41 812.1	1 985.9	4 830.0	4 937.9	75	84	(NA)	(NA)	(NA)	(NA)	(NA)	2869	
14 267.3	360.9	1 885.6	1 976.0	(NA)	(NA)	50.9	1 155.8	5 096.9	14 652.5	698.7	287	
2 447.2	36.9	348.6	419.0	93	81	10.4	268.1	981.0	3 391.1	145.3	2873	
3 819.3	63.6	387.3	445.5	92	96	14.3	328.2	760.5	3 921.9	229.6	2874	
1 701.1	26.3	254.9	244.9	99	94	9.8	155.7	406.5	1 903.4	35.4	2875	
6 299.7	234.1	894.8	866.7	77	83	16.5	403.8	2 948.9	5 436.1	288.5	2879	
16 782.2	445.8	1 821.5	1 768.1	(NA)	(NA)	82.3	1 725.1	5 432.6	12 330.4	519.0	289	
4 678.1	111.7	475.8	462.1	91	88	18.2	366.0	1 151.4	2 857.9	70.1	2891	
1 117.8	22.6	129.0	128.5	99	94	12.3	253.3	580.7	922.7	32.9	2892	
2 391.7	37.9	251.1	236.3	98	97	9.9	214.1	557.5	1 572.6	25.5	2893	
569.6	39.2	57.6	45.8	100	100	2.1	54.9	190.8	632.9	39.4	2895	
8 025.0	234.3	908.0	895.4	83	85	39.7	836.8	2 952.2	6 344.3	351.3	2899	
130 414.0	2 340.6	9 797.1	8 643.8	(NA)	(NA)	151.6	4 338.7	22 068.5	208 918.6	6 578.9	29	
118 186.2	2 035.0	8 792.9	7 705.7	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	291	
118 186.2	2 035.0	8 792.9	7 705.7	99	100	(NA)	(NA)	(NA)	(NA)	(NA)	2911	
7 749.1	213.2	470.3	418.4	(NA)	(NA)	29.5	629.1	1 742.8	5 948.1	133.2	295	
4 346.2	123.4	203.9	186.5	94	94	15.2	340.5	925.9	3 098.6	76.1	2951	
3 402.9	89.8	266.4	231.9	97	99	14.2	288.7	816.9	2 849.5	57.1	2952	
4 478.7	92.4	533.9	519.8	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	299	
3 765.6	79.5	437.5	418.7	95	94	11.9	266.2	902.6	2 875.3	67.8	2992	
713.1	12.9	96.4	101.1	95	94	(NA)	(NA)	(NA)	(NA)	(NA)	2999	
86 634.3	3 410.3	9 982.5	9 178.4	(NA)	(NA)	681.7	11 596.8	27 218.9	55 415.8	2 199.2	30	
10 427.4	336.7	1 024.3	969.3	(NA)	(NA)	70.3	1 733.9	4 660.4	9 340.1	227.0	301	
10 427.4	336.7	1 024.3	969.3	98	99	70.3	1 733.9	4 660.4	9 340.1	227.0	3011	
557.2	9.4	116.2	101.0	(NA)	(NA)	17.6	196.5	360.1	706.2	12.4	302	
557.2	9.4	116.2	101.0	96	98	17.6	196.5	360.1	706.2	12.4	3021	
4 647.5	157.9	775.3	744.6	(NA)	(NA)	30.3	495.4	997.6	1 666.0	53.0	305	
2 268.2	74.5	360.5	354.1	94	94	24.9	503.1	1 027.8	1 945.5	114.0	3052	
2 379.3	83.4	414.7	390.5	95	93	30.3	495.4	997.6	1 666.0	53.0	3053	
9 226.9	288.2	1 068.7	1 025.7	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	306	
3 963.2	148.6	433.4	418.5	88	96	(NA)	(NA)	(NA)	(NA)	(NA)	3061	
5 263.7	139.6	635.4	607.2	90	85	.7	11.2	22.6	45.1	.5	3069	

Table 3. Selected Statistics by Industry Group and Industry: 1987 and 1982—Con.

[Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports]

1987 SIC code	Industry group and industry	1987									
		Companies ¹ (number)	All establishments ²		All employees		Production workers			Value added by manu- facture ³ (million dollars)	Cost of materials ⁴ (million dollars)
			Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)		
30	Rubber and miscellaneous plastics products—Con.										
308	Miscellaneous plastics products, n.e.c.-----	10 216	12 044	5 999	599.4	11 954.5	466.8	928.1	7 829.1	31 089.5	30 963.0
3081	Unsupported plastics film and sheet-----	472	594	385	48.4	1 256.0	35.2	74.3	791.8	4 041.6	4 137.3
3082	Unsupported plastics profile shapes-----	549	581	298	25.2	512.2	19.1	37.8	314.0	1 192.1	1 116.3
3083	Laminated plastics plate, sheet, and profile shapes-----	214	234	104	17.3	412.9	12.9	27.6	275.4	1 122.6	1 025.7
3084	Plastics pipe-----	184	251	177	12.5	263.1	9.5	19.1	174.5	980.7	1 476.7
3085	Plastics bottles-----	155	286	227	25.1	501.6	21.5	44.0	384.5	1 351.9	1 480.6
3086	Plastics foam products-----	653	946	587	61.3	1 184.0	47.7	91.8	782.9	3 045.6	3 874.4
3087	Custom compounding of purchased plastics resins-----	356	405	201	17.3	398.3	12.1	25.1	223.8	1 011.1	1 509.5
3088	Plastics plumbing fixtures-----	162	176	81	7.5	138.0	5.6	10.8	84.5	411.8	302.1
3089	Plastics products, n.e.c.-----	7 767	8 571	3 939	384.9	7 288.4	303.1	597.7	4 797.7	17 932.2	16 040.6
31	Leather and leather products-----	1 965	2 198	915	129.0	1 830.6	109.0	205.9	1 301.5	4 377.9	4 755.0
311	Leather tanning and finishing-----	311	344	139	14.6	291.6	12.1	24.6	211.9	747.4	1 496.5
3111	Leather tanning and finishing-----	311	344	139	14.6	291.6	12.1	24.6	211.9	747.4	1 496.5
313	Footwear cut stock-----	114	127	57	5.0	69.6	4.3	8.5	49.8	141.4	182.9
3131	Footwear cut stock-----	114	127	57	5.0	69.6	4.3	8.5	49.8	141.4	182.9
314	Footwear, except rubber-----	366	483	318	71.1	913.0	62.2	116.9	691.0	2 152.5	1 930.8
3142	House slippers-----	34	37	23	3.7	50.3	3.0	5.6	30.1	132.9	99.6
3143	Men's footwear, except athletic-----	110	154	111	31.6	434.1	27.5	51.3	326.4	1 046.7	1 056.6
3144	Women's footwear, except athletic-----	123	163	123	26.6	320.0	23.7	45.5	253.2	755.8	572.4
3149	Footwear, except rubber, n.e.c.-----	119	129	61	9.2	108.6	8.0	14.5	81.3	217.2	202.2
315	Leather gloves and mittens-----	67	77	45	3.1	33.6	2.7	4.9	26.1	74.6	112.3
3151	Leather gloves and mittens-----	67	77	45	3.1	33.6	2.7	4.9	26.1	74.6	112.3
316	Luggage-----	234	241	109	11.4	195.7	8.3	15.1	104.1	505.9	430.0
3161	Luggage-----	234	241	109	11.4	195.7	8.3	15.1	104.1	505.9	430.0
317	Handbags and personal leather goods-----	521	530	150	16.7	232.0	13.6	25.5	155.2	530.2	411.9
3171	Women's handbags and purses-----	316	321	88	9.5	130.7	7.9	14.9	91.8	317.6	236.0
3172	Personal leather goods, n.e.c.-----	205	209	62	7.2	101.3	5.7	10.6	63.4	212.6	175.8
319	Leather goods, n.e.c.-----	379	396	97	7.1	95.0	5.8	10.4	63.3	225.8	190.6
3199	Leather goods, n.e.c.-----	379	396	97	7.1	95.0	5.8	10.4	63.3	225.8	190.6
32	Stone, clay, and glass products-----	12 682	16 191	5 134	523.7	12 349.1	404.8	832.6	8 794.8	33 383.1	28 142.8
321	Flat glass-----	65	84	38	14.6	506.8	11.8	25.0	397.6	1 618.4	915.3
3211	Flat glass-----	65	84	38	14.6	506.8	11.8	25.0	397.6	1 618.4	915.3
322	Glass and glassware, pressed or blown-----	394	522	211	77.4	1 959.2	65.8	129.4	1 576.6	5 065.2	3 257.4
3221	Glass containers-----	35	106	93	41.1	1 065.2	36.0	70.8	892.4	2 766.2	2 037.9
3229	Pressed and blown glass, n.e.c.-----	362	416	118	36.3	894.0	29.8	58.6	684.2	2 299.0	1 219.4
323	Products of purchased glass-----	1 324	1 429	431	51.1	1 059.9	39.5	79.9	720.0	2 837.1	2 587.0
3231	Products of purchased glass-----	1 324	1 429	431	51.1	1 059.9	39.5	79.9	720.0	2 837.1	2 587.0
324	Cement, hydraulic-----	123	213	138	19.1	598.6	14.5	30.2	424.4	2 304.1	2 002.0
3241	Cement, hydraulic-----	123	213	138	19.1	598.6	14.5	30.2	424.4	2 304.1	2 002.0
325	Structural clay products-----	423	600	366	34.6	689.3	27.5	56.4	490.5	1 739.9	1 183.2
3251	Brick and structural clay tile-----	167	266	204	16.6	311.5	13.4	27.8	224.3	771.9	480.2
3253	Ceramic wall and floor tile-----	95	114	51	9.5	182.8	7.7	15.6	134.6	463.1	261.9
3255	Clay refractories-----	111	153	82	6.4	150.2	4.7	9.3	99.4	405.1	387.5
3259	Structural clay products, n.e.c.-----	58	67	29	2.1	44.9	1.7	3.6	32.2	99.9	53.5
326	Pottery and related products-----	970	1 013	253	38.1	762.2	30.4	60.2	548.6	1 686.2	753.1
3261	Vitreous plumbing fixtures-----	48	65	40	9.7	217.0	8.2	17.2	176.5	536.9	262.5
3262	Vitreous china table and kitchenware-----	32	34	14	5.4	104.6	4.4	8.3	78.9	247.6	53.4
3263	Semivitreous table and kitchenware-----	43	44	18	1.8	25.6	1.5	3.3	19.1	74.2	18.9
3264	Porcelain electrical supplies-----	104	116	66	10.7	248.2	8.2	16.2	166.1	474.5	248.0
3269	Pottery products, n.e.c.-----	748	754	115	10.5	166.8	8.1	15.3	108.0	352.8	170.5
327	Concrete, gypsum, and plaster products-----	7 388	9 835	2 945	203.2	4 632.2	151.8	322.8	3 194.0	11 795.2	12 693.0
3271	Concrete block and brick-----	975	1 128	339	18.6	411.6	10.8	23.5	216.0	1 071.4	1 185.5
3272	Concrete products, n.e.c.-----	2 687	3 154	922	70.0	1 467.2	53.1	112.7	993.2	3 313.1	2 540.9
3273	Ready-mixed concrete-----	3 749	5 319	1 531	96.8	2 287.2	73.8	154.8	1 638.6	5 728.9	7 254.7
3274	Lime-----	56	82	56	5.7	141.9	4.5	9.4	103.6	350.4	364.5
3275	Gypsum products-----	80	152	97	12.1	324.3	9.6	22.5	242.5	1 331.4	1 347.5
328	Cut stone and stone products-----	731	746	167	12.5	243.0	10.0	19.8	173.7	450.5	385.8
3281	Cut stone and stone products-----	731	746	167	12.5	243.0	10.0	19.8	173.7	450.5	385.8
329	Miscellaneous nonmetallic mineral products-----	1 423	1 749	585	73.0	1 897.8	53.6	108.9	1 269.4	5 886.4	4 366.1
3291	Abrasive products-----	359	405	178	23.4	624.2	15.5	31.2	349.9	2 001.2	1 656.3
3292	Asbestos products-----	50	54	22	4.0	98.7	3.1	6.3	70.3	202.6	185.2
3295	Minerals, ground or treated-----	239	381	108	8.8	218.4	6.4	12.9	149.8	834.4	563.9
3296	Mineral wool-----	173	231	109	21.5	619.4	17.4	36.6	483.6	1 985.6	1 268.8
3297	Nonclay refractories-----	99	135	79	7.7	202.5	5.6	11.2	130.8	510.9	443.5
3299	Nonmetallic mineral products, n.e.c.-----	534	543	89	7.6	134.6	5.7	10.8	84.9	351.8	248.4

See footnotes at end of table.

were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987—Con.						1982					1987 SIC code
Value of shipments ⁴ (million dollars)	New capital expenditures ⁵ (million dollars)	Inventories ³		Ratios		All employees		Value added by manu- facture (million dollars)	Value of shipments ⁴ (million dollars)	New capital expend- itures ⁵ (million dollars)	
		End of year (million dollars)	Beginning of year (million dollars)	Special- ization (percent)	Coverage (percent)	Number (1,000)	Payroll (million dollars)				
											30
61 775.3	2 618.2	6 997.9	6 337.8	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	308
8 139.9	418.7	1 018.3	901.0	89	81	(NA)	(NA)	(NA)	(NA)	(NA)	3081
2 280.8	133.7	299.9	260.6	88	82	(NA)	(NA)	(NA)	(NA)	(NA)	3082
2 143.9	53.8	293.6	270.8	92	93	(NA)	(NA)	(NA)	(NA)	(NA)	3083
2 455.8	56.4	304.6	282.1	94	95	(NA)	(NA)	(NA)	(NA)	(NA)	3084
2 835.3	172.1	248.3	239.6	96	94	(NA)	(NA)	(NA)	(NA)	(NA)	3085
6 912.8	334.8	654.7	625.7	94	90	(NA)	(NA)	(NA)	(NA)	(NA)	3086
2 503.1	94.2	311.3	265.6	92	94	(NA)	(NA)	(NA)	(NA)	(NA)	3087
708.8	14.5	68.9	61.2	93	86	(NA)	(NA)	(NA)	(NA)	(NA)	3088
33 794.9	1 339.9	3 798.2	3 431.2	93	93	(NA)	(NA)	(NA)	(NA)	(NA)	3089
9 082.4	100.8	1 572.9	1 448.0	(NA)	(NA)	199.8	2 218.5	4 772.9	9 719.2	132.0	31
2 218.6	27.7	383.4	320.9	(NA)	(NA)	19.5	310.6	579.8	1 753.0	33.2	311
2 218.6	27.7	383.4	320.9	98	96	19.5	310.6	579.8	1 753.0	33.2	3111
324.1	3.3	38.2	39.0	(NA)	(NA)	6.8	80.8	154.7	367.8	6.0	313
324.1	3.3	38.2	39.0	97	93	6.8	80.8	154.7	367.8	6.0	3131
4 072.6	38.0	691.5	655.7	(NA)	(NA)	121.4	1 250.0	2 808.9	5 269.3	65.6	314
232.5	2.7	42.9	41.6	89	96	7.5	71.3	149.7	275.8	3.1	3142
2 104.8	17.4	445.1	431.7	91	96	46.5	503.1	1 101.4	2 261.4	28.3	3143
1 316.0	11.3	121.5	103.4	93	88	48.4	483.1	1 107.0	1 933.2	20.2	3144
419.3	6.6	81.9	79.0	94	82	19.1	192.7	450.9	798.9	14.0	3149
184.8	.7	39.2	35.9	(NA)	(NA)	3.9	36.6	72.5	177.6	.7	315
184.8	.7	39.2	35.9	83	93	3.9	36.6	72.5	177.6	.7	3151
928.9	11.8	184.0	174.8	(NA)	(NA)	16.0	193.8	432.8	789.0	12.0	316
928.9	11.8	184.0	174.8	97	94	16.0	193.8	432.8	789.0	12.0	3161
											317
942.1	13.7	164.5	157.0	(NA)	(NA)	25.3	271.1	564.0	1 035.1	8.7	317
548.8	10.2	80.1	70.0	91	99	15.4	158.5	320.4	623.7	5.6	3171
393.3	3.5	84.5	87.0	95	83	9.9	112.6	243.6	411.4	3.2	3172
411.3	5.6	72.1	64.8	(NA)	(NA)	7.0	75.6	160.2	327.4	5.8	319
411.3	5.6	72.1	64.8	90	91	7.0	75.6	160.2	327.4	5.8	3199
61 476.6	2 417.3	7 031.4	6 966.6	(NA)	(NA)	531.5	10 096.7	22 985.7	45 180.6	2 309.0	32
2 549.3	151.3	263.9	280.7	(NA)	(NA)	15.3	413.8	846.5	1 665.5	97.6	321
2 549.3	151.3	263.9	280.7	97	100	15.3	413.8	846.5	1 665.5	97.6	3211
											322
8 338.8	422.3	1 337.2	1 358.7	(NA)	(NA)	96.6	2 032.4	4 482.2	7 940.8	530.7	322
4 777.9	226.6	737.6	706.6	99	100	59.0	1 306.4	2 739.1	5 216.8	297.4	3221
3 560.9	195.7	599.6	652.1	99	97	37.6	726.0	1 743.1	2 724.0	233.3	3229
5 429.2	204.3	660.4	654.5	(NA)	(NA)	41.3	696.3	1 483.7	2 976.5	119.1	323
5 429.2	204.3	660.4	654.5	99	93	41.3	696.3	1 483.7	2 976.5	119.1	3231
4 335.4	166.2	724.5	761.9	(NA)	(NA)	24.6	636.4	1 815.7	3 542.0	421.9	324
4 335.4	166.2	724.5	761.9	99	99	24.6	636.4	1 815.7	3 542.0	421.9	3241
2 914.8	105.2	569.7	550.9	(NA)	(NA)	29.9	490.5	989.2	1 868.1	56.9	325
1 254.0	56.4	240.3	239.2	98	99	12.5	185.4	338.6	657.3	25.7	3251
717.4	33.2	128.8	116.4	100	99	7.5	114.2	256.1	406.9	7.7	3253
788.2	11.7	162.1	154.7	94	89	7.6	155.2	316.5	670.3	21.2	3255
155.2	3.9	38.6	40.5	99	96	2.3	35.7	77.9	133.6	2.3	3259
2 415.9	82.6	434.3	410.1	(NA)	(NA)	37.4	598.0	1 173.5	1 761.9	79.6	326
790.6	30.9	106.9	96.2	96	99	7.9	142.9	313.9	474.0	28.8	3261
298.4	7.0	95.2	92.4	(D)	99	6.3	98.0	196.3	241.6	5.2	3262
93.0	1.2	6.9	7.2	(D)	(D)	3.0	37.1	61.6	87.6	1.7	3263
714.2	26.4	147.0	140.3	94	87	10.1	197.1	350.0	528.0	25.9	3264
519.7	17.0	78.4	74.0	89	88	10.1	122.9	251.7	430.6	18.0	3269
											327
24 426.5	866.4	1 580.1	1 504.7	(NA)	(NA)	167.2	2 994.6	6 603.3	14 946.7	569.2	327
2 245.5	72.0	252.1	237.6	94	88	15.5	261.9	577.8	1 301.8	37.6	3271
5 828.4	194.1	686.9	647.9	97	97	55.7	961.7	2 006.4	3 649.2	127.7	3272
12 966.3	479.3	438.4	413.5	95	98	81.4	1 475.3	3 282.1	8 163.3	282.4	3273
715.5	33.0	72.6	74.0	90	90	5.6	108.6	245.0	543.2	36.0	3274
2 670.9	88.1	130.2	131.6	97	98	9.1	186.9	492.1	1 289.2	85.5	3275
840.8	30.6	105.5	114.0	(NA)	(NA)	10.5	155.9	295.2	555.4	23.9	328
840.8	30.6	105.5	114.0	98	98	10.5	155.9	295.2	555.4	23.9	3281
											329
10 226.0	388.5	1 355.6	1 331.1	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	329
3 621.4	113.5	596.7	558.4	82	94	26.0	531.8	1 451.8	2 750.7	96.9	3291
386.5	14.9	49.6	47.2	94	90	9.7	179.8	397.4	842.8	31.3	3292
1 406.2	53.2	190.7	205.8	96	95	10.0	190.3	639.4	1 269.9	75.0	3295
3 260.3	177.6	242.5	249.7	96	98	19.7	438.9	1 236.7	2 281.1	67.0	3296
954.5	16.3	189.8	187.9	90	85	6.8	148.4	333.1	691.0	48.5	3297
597.1	13.0	86.4	82.1	90	87	6.5	94.5	240.3	422.3	38.3	3299

Table 3. Selected Statistics by Industry Group and Industry: 1987 and 1982—Con.

[Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports

1987 SIC code	Industry group and industry	1987									Value added by manu- facture ³ (million dollars)	Cost of materials ⁴ (million dollars)
		Companies ¹ (number)	All establishments ²		All employees		Production workers					
			Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)			
33	Primary metal industries -----	5 400	6 661	3 687	701.1	19 777.3	541.5	1 114.0	14 162.8	46 121.1	74 692.3	
331	Blast furnace and basic steel products -----	833	1 127	713	252.8	8 165.7	195.7	407.4	6 063.0	20 486.2	31 411.7	
3312	Blast furnaces and steel mills -----	271	342	221	188.1	6 421.6	147.0	305.7	4 842.4	15 804.7	22 870.9	
3313	Electrometallurgical products -----	25	30	24	3.9	112.6	2.8	5.9	74.7	295.6	511.1	
3315	Steel wire and related products -----	274	343	206	24.7	592.0	18.7	40.1	407.5	1 422.9	1 901.5	
3316	Cold finishing of steel shapes -----	156	191	101	16.4	524.1	11.7	24.6	369.8	1 617.3	3 605.6	
3317	Steel pipe and tubes -----	155	221	161	19.6	515.4	15.4	31.2	368.6	1 345.7	2 522.2	
332	Iron and steel foundries -----	1 083	1 231	783	129.8	3 426.1	104.3	212.6	2 551.5	6 219.7	4 483.0	
3321	Gray and ductile iron foundries -----	692	774	493	82.4	2 289.9	67.9	140.2	1 776.2	4 044.4	3 198.9	
3322	Malleable iron foundries -----	27	28	19	4.2	121.4	3.0	5.9	77.4	181.6	102.6	
3324	Steel investment foundries -----	120	135	95	20.3	470.6	15.6	31.1	320.6	988.8	495.7	
3325	Steel foundries, n.e.c. -----	270	294	176	22.9	544.1	17.9	35.5	377.4	1 004.9	685.7	
333	Primary nonferrous metals -----	133	170	88	31.7	995.5	24.0	48.2	697.0	2 998.1	7 848.1	
3331	Primary copper -----	8	13	12	3.3	97.8	2.6	5.2	73.0	443.4	2 177.1	
3334	Primary aluminum -----	34	49	27	17.3	568.5	13.8	27.7	420.5	1 900.1	3 049.3	
3339	Primary nonferrous metals, n.e.c. -----	96	108	49	11.0	329.2	7.6	15.4	203.6	654.5	2 621.6	
334	Secondary nonferrous metals -----	365	398	162	12.5	312.0	9.1	19.3	186.1	947.3	3 450.7	
3341	Secondary nonferrous metals -----	365	398	162	12.5	312.0	9.1	19.3	186.1	947.3	3 450.7	
335	Nonferrous rolling and drawing -----	731	1 069	758	163.0	4 298.2	121.8	252.8	2 917.5	10 331.6	23 359.7	
3351	Copper rolling and drawing -----	94	121	91	22.6	589.1	17.6	36.8	418.2	1 610.2	3 617.9	
3353	Aluminum sheet, plate, and foil -----	39	56	44	26.1	912.3	19.8	40.2	659.0	1 790.0	7 841.4	
3354	Aluminum extruded products -----	131	204	161	30.7	740.6	23.5	50.0	504.7	1 404.7	2 908.8	
3355	Aluminum rolling and drawing, n.e.c. -----	29	29	14	.9	24.2	.6	1.4	17.0	109.3	392.6	
3356	Nonferrous rolling and drawing, n.e.c. -----	140	172	93	17.9	527.7	11.8	25.2	308.5	1 187.9	1 876.7	
3357	Nonferrous wire drawing and insulating -----	341	487	355	64.9	1 504.3	48.4	99.2	1 010.1	4 229.5	6 722.3	
336	Nonferrous foundries (castings) -----	1 597	1 689	790	79.5	1 805.1	64.3	128.9	1 302.6	3 394.6	2 953.8	
3363	Aluminum die-castings -----	390	412	231	28.1	696.8	22.7	46.4	516.2	1 267.8	1 216.8	
3364	Nonferrous die-castings, except aluminum -----	293	304	156	12.9	260.3	10.4	20.7	176.4	534.0	482.9	
3365	Aluminum foundries -----	557	583	255	26.3	571.5	21.7	43.4	422.1	1 035.9	840.9	
3366	Copper foundries -----	330	334	122	8.2	175.3	6.5	12.8	124.4	341.9	285.3	
3369	Nonferrous foundries, n.e.c. -----	53	56	26	4.0	101.3	2.9	5.6	63.6	214.9	127.8	
339	Miscellaneous primary metal products -----	867	977	393	31.8	774.8	22.3	44.8	445.1	1 743.6	1 185.4	
3398	Metal heat treating -----	631	725	294	18.0	421.6	13.4	27.9	264.2	1 015.4	383.3	
3399	Primary metal products, n.e.c. -----	238	252	99	13.8	353.2	8.9	16.8	180.9	728.2	802.1	
34	Fabricated metal products -----	32 470	36 092	13 884	1 458.0	34 999.7	1 077.8	2 183.4	22 781.3	74 957.3	72 668.5	
341	Metal cans and shipping containers -----	275	537	358	48.2	1 527.4	39.2	83.5	1 195.1	4 213.3	7 896.6	
3411	Metal cans -----	161	369	259	39.4	1 325.4	32.7	69.5	1 058.0	3 816.0	7 194.6	
3412	Metal barrels, drums, and pails -----	118	168	99	8.7	202.0	6.5	14.0	137.1	397.4	702.0	
342	Cutlery, handtools, and hardware -----	2 089	2 328	959	145.2	3 388.9	110.5	217.4	2 275.3	8 030.5	5 466.9	
3421	Cutlery -----	131	141	62	10.5	241.0	7.9	15.1	157.9	803.1	250.7	
3423	Hand and edge tools, n.e.c. -----	732	810	318	41.9	922.0	31.3	62.8	595.0	2 233.2	1 381.7	
3425	Saw blades and handsaws -----	128	138	60	7.7	177.4	5.6	11.0	113.9	413.6	267.0	
3429	Hardware, n.e.c. -----	1 127	1 239	519	85.2	2 048.5	65.8	128.6	1 408.5	4 580.7	3 567.5	
343	Plumbing and heating, except electric -----	782	833	322	45.5	1 004.5	32.4	66.5	600.6	2 853.7	2 466.8	
3431	Metal sanitary ware -----	90	97	42	8.0	193.3	6.0	12.3	124.9	444.1	359.1	
3432	Plumbing fixture fittings and trim -----	161	180	98	17.1	355.6	13.1	27.5	235.3	1 266.0	1 127.4	
3433	Heating equipment, except electric -----	540	556	182	20.5	455.7	13.3	26.7	240.5	1 143.8	980.4	
344	Fabricated structural metal products -----	11 533	12 583	4 754	407.2	9 042.2	291.2	584.3	5 536.5	18 682.9	21 817.4	
3441	Fabricated structural metal -----	2 334	2 453	1 013	80.9	1 879.8	57.8	117.3	1 162.8	3 629.2	5 070.1	
3442	Metal doors, sash, and trim -----	1 428	1 592	695	74.7	1 413.8	54.6	110.6	860.6	2 993.8	3 600.1	
3443	Fabricated plate work (boiler shops) -----	1 584	1 740	802	74.7	1 842.4	51.5	101.7	1 107.9	3 466.6	3 311.0	
3444	Sheet metal work -----	4 078	4 296	1 387	100.2	2 236.7	74.9	149.4	1 437.5	4 813.5	4 961.7	
3446	Architectural metal work -----	1 300	1 345	335	28.0	573.1	19.7	39.0	340.7	1 191.5	1 079.0	
3448	Prefabricated metal buildings -----	486	560	244	25.8	558.6	17.1	34.1	310.1	1 337.9	1 796.2	
3449	Miscellaneous metal work -----	496	597	278	22.9	537.7	15.6	32.3	317.0	1 250.6	1 999.3	
345	Screw machine products, bolts, etc. -----	2 432	2 572	1 106	94.7	2 270.3	72.8	153.5	1 553.0	4 766.3	3 164.6	
3451	Screw machine products -----	1 610	1 635	635	42.7	945.3	34.1	72.9	666.1	1 770.5	1 048.9	
3452	Bolts, nuts, rivets, and washers -----	834	937	471	52.0	1 325.0	38.7	80.5	886.9	2 995.8	2 115.7	
346	Metal forgings and stampings -----	3 751	4 070	1 941	255.3	7 235.0	202.6	418.9	5 309.1	13 175.0	15 178.8	
3462	Iron and steel forgings -----	379	406	202	26.6	746.5	19.1	37.8	484.3	1 394.0	1 553.5	
3463	Nonferrous forgings -----	72	79	41	7.3	218.1	5.4	11.4	145.4	428.2	565.6	
3465	Automotive stampings -----	596	713	502	119.8	3 976.9	99.9	213.3	3 157.5	6 659.3	8 582.2	
3466	Crowns and closures -----	46	57	34	6.1	161.6	4.9	10.3	119.8	382.1	443.1	
3469	Metal stampings, n.e.c. -----	2 702	2 815	1 162	95.5	2 131.9	73.2	146.2	1 402.0	4 311.4	4 034.4	
347	Metal services, n.e.c. -----	5 030	5 265	1 659	112.6	2 167.0	88.2	176.9	1 443.5	4 628.9	3 172.1	
3471	Plating and polishing -----	3 353	3 451	1 043	71.1	1 335.5	55.9	112.0	884.7	2 633.6	1 235.3	
3479	Metal coating and allied services -----	1 702	1 814	616	41.5	831.5	32.3	65.0	558.8	1 995.4	1 936.9	
348	Ordnance and accessories, n.e.c. -----	334	376	159	87.6	2 458.2	54.3	108.0	1 258.8	5 349.1	2 413.9	
3482	Small arms ammunition -----	75	79	18	9.0	243.5	6.9	14.5	168.2	626.7	242.7	
3483	Ammunition, except for small arms, n.e.c. -----	66	87	64	41.5	1 072.6	25.8	50.1	517.4	2 542.0	1 614.9	
3484	Small arms -----	146	151	44	13.3	337.0	9.5	19.5	209.2	754.9	338.0	
3489	Ordnance and accessories, n.e.c. -----	59	59	33	23.9	805.1	12.1	23.9	364.0	1 425.4	218.4	
349	Miscellaneous fabricated metal products -----	6 908	7 528	2 626	261.7	5 906.1	186.6	374.5	3 609.3	13 257.5	11 091.3	
3491	Industrial valves -----	310	384	272	45.9	1 193.7	29.7	59.0	644.3	2 792.8	1 798.9	
3492	Fluid power valves and hose fittings -----	332	386	203	27.9	686.1	18.4	37.0	403.1	1 445.4	1 001.8	
3493	Steel springs, except wire -----	144	151	61	5.0	122.1	3.6	7.3	78.1	248.7	210.4	
3494	Valves and pipe fittings, n.e.c. -----	372	416	231	25.1	570.4	17.6	34.9	352.7	1 366.5	1 002.0	
3495	Wire springs -----	304	407	214	19.7	406.5	16.0	32.2	289.9	880.0	697.5	

See footnotes at end of table.

were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987—Con.						1982					1987 SIC code
Value of shipments ⁴ (million dollars)	New capital expenditures ⁵ (million dollars)	Inventories ³		Ratios		All employees		Value added by manu- facture (million dollars)	Value of shipments ⁴ (million dollars)	New capital expend- itures ⁵ (million dollars)	
		End of year (million dollars)	Beginning of year (million dollars)	Special- ization (percent)	Coverage (percent)	Number (1,000)	Payroll (million dollars)				
120 248.2	3 850.9	18 977.6	18 333.8	(NA)	(NA)	854.1	20 602.7	33 291.4	104 666.8	4 666.1	33
51 815.3	1 667.7	8 672.1	8 615.0	(NA)	(NA)	365.7	10 262.0	14 721.5	46 720.2	2 425.1	331
38 568.6	1 220.3	6 366.9	6 365.7	98	97	295.8	8 677.9	11 763.3	36 824.4	2 170.2	3312
843.8	24.7	205.8	237.9	95	83	5.3	123.5	180.3	707.5	23.8	3313
3 330.3	73.2	569.2	569.5	96	88	22.2	444.5	941.8	2 420.9	61.4	3315
5 216.3	290.4	858.4	845.0	80	94	15.4	367.9	623.3	3 005.1	45.2	3316
3 856.3	59.0	671.9	596.8	91	92	27.0	648.1	1 212.7	3 762.2	124.5	3317
10 627.7	434.9	1 237.5	1 157.0	(NA)	(NA)	157.4	3 113.1	5 361.5	9 641.5	482.5	332
7 213.1	357.0	690.5	645.7	96	96	97.3	1 965.0	3 310.5	6 202.2	338.0	3321
283.4	3.6	22.5	20.6	93	77	6.5	135.7	206.3	323.2	11.9	3322
1 450.8	36.5	255.7	224.7	91	98	16.8	299.4	635.7	1 024.6	32.9	3324
1 680.4	37.8	268.8	265.9	93	94	36.9	713.0	1 209.0	2 091.4	99.6	3325
10 869.0	361.5	1 194.3	1 176.9	(NA)	(NA)	43.9	1 306.6	2 310.9	11 320.8	412.5	333
2 556.9	33.6	228.8	169.4	95	77	7.6	216.9	440.4	3 077.5	112.8	3331
5 005.7	173.5	518.4	533.3	95	100	22.9	733.1	1 133.9	5 037.1	181.2	3334
3 306.5	154.3	447.0	474.2	73	92	13.4	356.6	736.7	3 206.2	118.4	3339
4 431.4	62.6	547.5	564.2	(NA)	(NA)	19.2	402.2	619.8	4 851.9	146.4	334
4 431.4	62.6	547.5	564.2	99	95	19.2	402.2	619.8	4 851.9	146.4	3341
33 282.2	989.3	6 238.0	5 801.1	(NA)	(NA)	166.7	3 636.2	6 821.7	25 462.9	933.2	335
5 134.0	90.4	786.8	643.4	94	98	23.3	468.2	957.7	3 270.0	123.9	3351
9 497.2	439.2	2 104.8	1 923.7	96	98	27.7	862.1	1 154.0	7 213.8	260.4	3353
4 292.8	116.9	640.9	587.9	87	97	25.4	499.0	859.3	2 673.1	114.7	3354
482.3	2.8	54.8	35.7	98	42	2.6	65.0	30.7	670.8	5.5	3356
3 049.4	96.2	1 062.7	1 167.5	91	96	20.0	472.2	993.3	3 418.3	134.4	3357
10 826.5	243.9	1 587.9	1 442.9	97	98	67.6	1 269.6	2 826.6	8 216.9	294.4	336
6 315.2	195.1	593.5	531.1	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	336
2 468.8	94.8	183.6	154.6	89	93	(NA)	(NA)	(NA)	(NA)	(NA)	3363
1 009.6	26.0	104.3	93.6	89	85	(NA)	(NA)	(NA)	(NA)	(NA)	3364
1 871.7	52.1	166.5	157.0	89	91	(NA)	(NA)	(NA)	(NA)	(NA)	3365
625.2	13.2	58.3	55.3	90	82	(NA)	(NA)	(NA)	(NA)	(NA)	3366
339.9	9.0	80.8	70.6	89	78	(NA)	(NA)	(NA)	(NA)	(NA)	3369
2 907.4	139.8	494.7	488.5	(NA)	(NA)	25.9	497.5	997.9	2 066.3	94.2	339
1 397.3	81.6	101.0	98.0	(D)	(D)	17.7	324.2	684.5	1 128.2	42.5	3398
1 510.1	58.2	393.7	390.4	84	83	8.2	173.4	313.5	938.1	51.7	3399
147 366.1	4 816.4	22 554.4	21 754.6	(NA)	(NA)	1 459.7	28 282.6	58 927.6	119 444.0	3 685.9	34
12 113.6	348.2	1 544.6	1 416.5	(NA)	(NA)	58.9	1 533.0	4 443.3	12 171.5	269.7	341
11 013.6	334.2	1 383.9	1 273.1	99	98	49.0	1 334.5	4 071.7	11 132.8	247.0	3411
1 100.0	14.0	160.7	143.4	92	93	9.9	198.6	371.7	1 038.7	22.7	3412
13 480.6	449.1	2 375.2	2 382.9	(NA)	(NA)	140.9	2 584.5	6 040.7	10 081.7	335.6	342
1 054.0	57.9	174.0	169.2	96	88	13.0	223.7	683.6	938.0	44.0	3421
3 605.6	117.0	755.2	752.8	90	92	40.4	706.5	1 785.2	2 915.5	93.2	3423
674.9	22.5	133.6	132.1	89	86	7.4	133.4	251.8	487.3	24.1	3425
8 146.2	251.6	1 312.5	1 328.8	96	95	80.1	1 520.9	3 320.1	5 740.9	174.3	3429
5 282.7	125.8	934.1	870.9	(NA)	(NA)	47.9	820.7	2 022.6	4 003.3	96.9	343
803.4	20.4	145.1	139.0	92	91	7.5	139.4	308.1	620.3	15.7	3431
2 355.4	61.9	428.5	375.6	95	96	14.4	237.9	672.1	1 300.5	37.2	3432
2 124.0	43.6	360.6	356.2	93	87	26.0	443.4	1 042.4	2 082.5	44.0	3433
40 416.1	802.5	6 138.2	5 893.1	(NA)	(NA)	421.9	7 897.2	15 466.3	34 904.3	751.6	344
6 678.0	130.6	1 215.5	1 182.8	94	95	103.6	1 990.2	3 639.1	8 853.1	188.9	3441
6 591.0	131.3	989.3	944.4	92	94	66.3	1 015.8	2 175.1	4 685.3	98.6	3442
6 810.2	174.5	1 216.0	1 268.4	92	93	102.9	2 180.3	4 135.7	8 225.3	200.7	3443
9 698.9	209.6	1 530.1	1 382.8	91	91	81.1	1 494.6	3 024.1	6 853.9	145.6	3444
2 268.8	43.6	354.9	343.5	88	87	22.8	366.0	705.0	1 367.5	26.8	3446
3 137.8	50.8	391.8	368.1	92	95	23.7	435.7	877.4	2 324.6	46.1	3448
3 231.4	62.0	440.7	403.2	88	86	21.5	414.7	909.9	2 594.6	44.9	3449
7 890.2	250.1	1 311.0	1 260.1	(NA)	(NA)	94.0	1 726.9	3 309.2	5 834.4	187.0	345
2 806.2	99.7	355.5	330.7	95	93	41.8	718.9	1 328.0	2 173.1	77.2	3451
5 084.0	150.4	955.5	929.4	95	96	52.2	1 008.1	1 981.2	3 661.3	109.8	3452
28 409.8	1 718.4	3 340.5	3 314.2	(NA)	(NA)	236.3	5 110.2	9 709.8	20 057.1	945.0	346
3 003.6	108.2	610.8	687.6	91	92	30.7	690.7	1 347.6	2 943.5	158.0	3462
1 003.7	29.8	278.7	292.6	86	76	7.9	200.7	461.2	1 093.8	100.3	3463
15 251.6	1 285.0	1 153.9	1 105.4	95	93	90.5	2 292.6	4 114.4	8 777.4	465.0	3465
819.8	26.5	151.9	136.9	96	95	6.7	143.5	372.4	804.8	21.6	3466
8 331.1	268.9	1 145.3	1 091.7	90	91	100.4	1 782.7	3 414.2	6 437.7	200.1	3469
7 789.5	245.5	644.2	585.9	(NA)	(NA)	96.9	1 518.2	2 896.5	5 124.8	200.2	347
3 866.9	140.2	228.9	213.3	(D)	(D)	61.9	919.0	1 693.9	2 731.4	109.2	3471
3 922.6	105.3	417.3	372.6	(D)	(D)	35.0	599.1	1 202.6	2 393.4	91.0	3479
7 643.6	177.9	1 509.9	1 371.3	(NA)	(NA)	79.4	1 779.7	3 441.5	4 992.9	138.4	348
889.2	17.5	147.4	164.1	96	(D)	10.1	221.6	518.4	799.8	23.3	3482
3 983.2	77.0	853.0	671.8	82	88	24.4	497.5	1 125.0	1 757.1	56.2	3483
1 093.1	33.4	274.2	266.8	99	94	17.4	338.2	715.7	1 032.1	34.3	3484
1 678.1	50.0	235.3	268.6	91	67	27.5	722.4	1 082.4	1 403.8	24.6	3489
24 339.9	698.9	4 756.6	4 659.7	(NA)	(NA)	283.6	5 312.1	11 597.6	22 274.1	761.4	349
4 590.6	150.0	1 264.6	1 262.0	84	88	(NA)	(NA)	(NA)	(NA)	(NA)	3491
2 451.5	77.9	711.1	702.6	89	75	(NA)	(NA)	(NA)	(NA)	(NA)	3492
458.5	18.0	81.0	78.1	87	49	5.2	103.5	204.5	413.5	7.3	3493
2 377.3	62.4	557.3	562.2	88	85	(NA)	(NA)	(NA)	(NA)	(NA)	3494
1 580.4	49.2	156.4	156.8	91	93	17.9	294.1	596.8	1 104.3	31.9	3495

Table 3. Selected Statistics by Industry Group and Industry: 1987 and 1982—Con.

[Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports

1987 SIC code	Industry group and industry	1987									Value added by manu- facture ³ (million dollars)	Cost of materials ⁴ (million dollars)
		Companies ¹ (number)	All establishments ²		All employees		Production workers					
			Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)			
34 349	Fabricated metal products—Con. Miscellaneous fabricated metal products—Con.											
3496	Miscellaneous fabricated wire products	1 066	1 157	447	35.1	674.2	26.2	52.5	418.2	1 463.8	1 251.9	
3497	Metal foil and leaf	97	117	66	10.4	304.3	7.4	15.9	201.9	854.5	1 444.1	
3498	Fabricated pipe and fittings	679	728	283	20.0	422.9	15.0	30.1	278.9	824.8	906.6	
3499	Fabricated metal products, n.e.c.	3 720	3 782	849	72.5	1 525.9	52.7	105.6	942.3	3 380.9	2 778.0	
35	Industrial machinery and equipment...	48 900	52 091	13 849	1 844.4	50 553.1	1 142.8	2 313.7	26 092.6	118 187.4	99 569.5	
351	Engines and turbines	289	359	192	86.9	2 905.8	56.8	116.5	1 717.4	7 039.5	7 638.9	
3511	Turbines and turbine generator sets	68	81	42	22.9	862.7	11.8	26.7	366.0	1 973.7	1 579.9	
3519	Internal combustion engines, n.e.c. ...	224	278	150	64.0	2 043.1	45.0	89.8	1 351.5	5 065.8	6 058.9	
352	Farm and garden machinery	1 720	1 799	545	82.0	1 916.8	58.2	110.6	1 185.1	5 625.4	5 933.3	
3523	Farm machinery and equipment	1 576	1 634	464	57.0	1 416.3	39.1	75.2	842.2	3 709.5	3 218.5	
3524	Lawn and garden equipment	149	165	81	24.9	500.6	19.1	35.4	342.9	1 915.9	2 714.8	
353	Construction and related machinery ...	3 140	3 473	1 416	188.3	5 271.8	117.0	233.8	2 886.6	11 344.1	12 868.1	
3531	Construction machinery	872	954	422	81.1	2 427.7	54.2	107.5	1 496.2	5 772.0	6 890.9	
3532	Mining machinery	293	321	122	13.6	354.6	8.2	16.3	180.7	772.5	748.5	
3533	Oil and gas field machinery	563	633	190	24.8	719.2	13.3	26.5	345.9	1 210.2	1 225.8	
3534	Elevators and moving stairways	158	176	81	10.2	262.4	6.3	12.8	143.5	524.7	565.3	
3535	Conveyors and conveying equipment	703	747	347	31.5	856.5	17.9	37.7	379.8	1 752.9	1 639.5	
3536	Hoists, cranes, and monorails	165	175	81	7.0	175.3	4.2	8.1	90.0	358.1	318.7	
3537	Industrial trucks and tractors	448	467	173	20.1	476.1	13.0	25.0	250.3	953.7	1 479.5	
354	Metalworking machinery	11 002	11 446	2 898	267.7	7 300.8	188.9	389.6	4 648.3	13 734.4	8 212.4	
3541	Machine tools, metal cutting types ...	381	417	232	31.7	921.5	18.2	35.4	465.7	1 668.7	1 399.5	
3542	Machine tools, metal forming types ...	196	207	120	13.8	414.3	8.7	18.1	236.7	734.3	637.8	
3543	Industrial patterns	812	813	85	8.6	237.5	6.9	13.8	186.4	389.3	112.5	
3544	Special dies, tools, jigs, and fixtures	7 207	7 317	1 517	114.4	3 163.6	87.7	185.5	2 251.2	5 293.8	2 227.0	
3545	Machine tool accessories	1 736	1 881	566	48.5	1 186.8	35.1	71.1	758.4	2 565.6	1 039.6	
3546	Power-driven handtools	183	199	68	16.8	382.8	11.7	22.3	222.3	1 125.0	1 045.9	
3547	Rolling mill machinery	83	86	34	3.9	120.7	2.2	4.7	57.4	284.9	249.7	
3548	Welding apparatus	203	225	130	18.7	541.5	11.5	24.2	292.9	1 084.4	1 062.1	
3549	Metalworking machinery, n.e.c.	292	301	146	11.3	332.1	6.9	14.4	177.4	588.4	438.2	
355	Special industry machinery	4 302	4 557	1 626	169.1	4 587.9	96.3	194.1	2 183.2	9 654.5	7 580.1	
3552	Textile machinery	475	506	172	15.6	352.4	10.6	22.2	206.9	712.1	547.1	
3553	Woodworking machinery	280	292	97	8.9	205.3	5.8	11.9	115.7	464.3	423.7	
3554	Paper industries machinery	256	278	127	17.1	502.1	9.6	19.1	239.0	1 027.0	868.8	
3555	Printing trades machinery	408	438	194	25.0	751.6	12.1	25.3	306.1	1 606.6	1 315.1	
3556	Food products machinery	483	512	219	19.2	490.9	11.8	22.8	258.0	1 140.5	832.7	
3559	Special industry machinery, n.e.c. ...	2 438	2 531	817	83.3	2 285.6	46.3	92.8	1 057.5	4 704.0	3 592.9	
356	General industrial machinery	3 434	3 952	1 905	240.4	6 203.4	151.0	302.0	3 416.2	13 782.7	10 310.0	
3561	Pumps and pumping equipment	333	405	226	35.2	969.9	19.7	38.4	458.7	2 154.5	1 837.2	
3562	Ball and roller bearings	113	169	116	36.9	949.9	29.2	60.0	719.3	2 203.3	1 511.5	
3563	Air and gas compressors	223	259	136	23.8	651.8	12.4	24.5	298.7	1 415.1	1 609.8	
3564	Blowers and fans	445	507	242	24.8	548.6	16.0	32.6	309.0	1 282.4	996.7	
3565	Packaging machinery	415	439	231	22.6	631.9	13.4	26.6	327.2	1 406.8	785.1	
3566	Speed changers, drives, and gears ...	251	276	157	17.9	474.0	11.9	23.8	289.0	1 004.4	555.4	
3567	Industrial furnaces and ovens	342	370	170	16.6	401.1	9.9	19.1	195.7	821.6	623.6	
3568	Power transmission equipment, n.e.c.	262	308	183	22.0	562.5	15.0	29.6	351.1	1 258.6	776.0	
3569	General industrial machinery, n.e.c. ...	1 159	1 219	444	40.6	1 013.7	23.6	47.5	467.5	2 236.0	1 614.6	
357	Computer and office equipment	1 870	2 052	939	327.7	10 668.3	120.9	244.8	2 571.4	32 386.8	28 334.0	
3571	Electronic computers	914	974	394	151.9	4 953.0	54.7	105.7	1 126.2	18 322.2	15 222.9	
3572	Computer storage devices	98	106	64	43.3	1 442.6	15.0	31.0	328.1	3 268.5	3 252.8	
3575	Computer terminals	120	121	74	15.0	441.7	5.5	10.7	124.1	1 014.3	742.0	
3577	Computer peripheral equipment, n.e.c.	520	549	252	76.2	2 625.4	26.2	58.7	579.5	6 975.0	7 107.3	
3578	Calculating and accounting equipment	92	98	53	12.8	380.7	6.0	12.4	142.7	937.2	560.6	
3579	Office machines, n.e.c.	191	204	102	28.5	824.8	13.5	26.3	270.8	1 869.8	1 448.4	
358	Refrigeration and service machinery ...	1 873	2 105	963	190.4	4 752.1	132.8	266.2	2 877.1	11 459.9	11 959.7	
3581	Automatic vending machines	97	98	33	7.9	185.6	5.7	11.1	108.7	344.0	372.7	
3582	Commercial laundry equipment	80	81	40	4.6	106.9	3.4	7.0	66.3	246.5	212.7	
3585	Refrigeration and heating equipment	746	894	513	133.3	3 355.8	96.4	192.8	2 170.3	8 051.1	9 138.5	
3586	Measuring and dispensing pumps ...	70	83	44	9.4	249.0	5.8	12.0	132.8	617.8	470.3	
3589	Service industry machinery, n.e.c. ...	897	949	333	35.2	854.8	21.5	43.3	399.0	2 200.5	1 765.5	
359	Industrial machinery, n.e.c.	22 096	22 348	3 365	291.9	6 946.2	220.9	456.1	4 607.2	13 160.2	6 733.1	
3592	Carburetors, pistons, rings, and valves	132	155	86	21.7	648.2	17.3	36.7	485.3	1 198.0	1 088.7	
3593	Fluid power cylinders and actuators	331	362	168	20.2	602.0	13.2	26.1	333.9	1 254.5	637.5	
3594	Fluid power pumps and motors	133	150	67	14.8	428.9	9.0	18.9	240.2	830.6	559.6	
3596	Scales and balances, except laboratory	118	134	57	6.7	146.1	3.8	8.0	65.7	355.6	273.8	
3599	Industrial machinery, n.e.c.	21 414	21 547	2 987	228.5	5 120.9	177.6	366.4	3 482.0	9 521.5	4 173.4	
36	Electronic and other electric equipment	13 523	15 922	7 544	1 564.7	38 738.2	999.6	1 959.3	19 716.8	95 815.3	76 195.1	
361	Electric distribution equipment	602	760	410	77.0	1 790.8	54.1	104.9	1 076.3	4 504.1	3 625.4	
3612	Transformers, except electronic switchgear	239	286	154	32.2	720.4	24.4	46.7	470.5	1 615.4	1 656.4	
3613	Switchgear and switchboard apparatus	371	474	256	44.8	1 070.5	29.8	58.1	605.8	2 888.7	1 969.0	

See footnotes at end of table.

vere issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987—Con.						1982					1987 SIC code
Value of shipments ⁴ (million dollars)	New capital expenditures ⁵ (million dollars)	Inventories ³		Ratios		All employees		Value added by manu- facture (million dollars)	Value of shipments ⁴ (million dollars)	New capital expend- itures ⁵ (million dollars)	
		End of year (million dollars)	Beginning of year (million dollars)	Special- ization (percent)	Coverage (percent)	Number (1,000)	Payroll (million dollars)				
2 720.8	64.9	404.0	398.7	95	90	36.8	580.3	1 167.3	2 358.4	67.0	3496
2 286.6	87.8	360.2	319.6	82	86	10.8	243.1	662.8	1 846.3	40.1	3497
1 725.5	36.4	349.0	341.6	97	91	32.7	650.7	1 437.5	3 105.8	137.2	3498
6 148.6	152.5	873.1	838.0	93	90	65.0	1 105.8	2 304.5	4 406.0	114.1	3499
217 669.9	6 954.6	42 277.7	41 588.0	(NA)	(NA)	2 188.7	46 910.7	102 269.8	187 895.7	8 537.2	35
14 570.4	620.7	2 655.6	2 504.1	(NA)	(NA)	112.0	2 849.7	6 069.3	13 039.7	727.8	351
3 447.8	91.6	1 272.0	1 142.8	83	83	32.4	870.8	2 152.9	3 676.3	127.9	3511
11 122.6	529.1	1 383.6	1 361.3	94	91	79.6	1 979.0	3 916.4	9 363.4	599.9	3519
11 474.3	311.3	2 278.2	2 170.6	(NA)	(NA)	113.8	2 385.6	6 146.3	13 108.2	392.3	352
6 879.9	200.2	1 546.8	1 477.2	90	91	96.1	2 067.4	5 200.8	10 743.0	341.2	3523
4 594.4	111.2	731.4	693.4	89	94	17.8	318.1	945.5	2 365.2	51.1	3524
24 622.3	588.9	6 121.8	6 526.6	(NA)	(NA)	325.8	7 332.3	16 453.3	32 037.5	1 578.1	353
12 767.7	335.8	2 687.1	2 779.9	94	96	115.5	2 653.1	5 477.8	11 657.9	419.4	3531
1 518.1	36.6	527.2	530.2	86	86	24.6	522.1	1 113.0	2 109.3	66.0	3532
2 728.3	31.7	1 584.2	1 894.7	93	96	98.5	2 341.9	6 545.8	11 195.1	903.2	3533
1 084.4	21.8	177.6	179.2	98	94	13.0	270.7	589.4	1 120.7	31.2	3534
3 408.2	118.5	526.7	523.4	92	92	36.6	759.1	1 472.7	2 946.7	58.0	3535
675.4	7.0	162.9	169.4	93	78	(NA)	(NA)	(NA)	(NA)	(NA)	3536
2 440.2	37.5	456.1	449.8	95	94	(NA)	(NA)	(NA)	(NA)	(NA)	3537
22 003.5	719.0	4 743.2	4 819.7	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	354
3 189.5	61.2	1 056.8	1 180.0	83	93	58.3	1 335.0	2 516.2	4 411.5	157.7	3541
1 396.3	31.2	529.3	564.1	91	87	19.5	438.1	777.8	1 428.7	43.4	3542
499.4	18.5	43.0	39.9	92	80	9.8	217.6	347.6	452.3	15.8	3543
7 550.1	375.3	952.1	1 001.8	94	82	102.9	2 293.3	3 780.5	5 374.9	232.9	3544
3 601.0	113.3	813.4	804.4	94	93	55.1	1 069.7	2 164.3	3 165.3	143.9	3545
2 161.8	46.2	361.2	346.6	83	85	21.6	393.6	940.3	1 795.3	68.1	3546
467.8	7.1	170.6	103.9	92	94	5.1	125.1	276.4	502.9	14.8	3547
2 104.6	45.4	556.4	507.8	90	92	(NA)	(NA)	(NA)	(NA)	(NA)	3548
1 033.0	20.9	260.4	271.2	89	87	(NA)	(NA)	(NA)	(NA)	(NA)	3549
17 096.1	474.8	4 136.6	3 865.9	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	355
1 240.7	33.2	318.9	291.9	96	96	19.4	322.9	641.6	1 059.0	46.1	3552
884.3	17.0	161.3	157.4	91	91	(NA)	(NA)	(NA)	(NA)	(NA)	3553
1 867.1	45.6	405.2	369.9	90	93	17.8	405.8	762.6	1 387.4	29.4	3554
2 857.8	114.2	770.3	628.5	96	94	(NA)	(NA)	(NA)	(NA)	(NA)	3555
1 971.4	47.4	457.7	431.1	86	91	(NA)	(NA)	(NA)	(NA)	(NA)	3556
8 274.7	217.3	2 023.2	1 987.0	94	91	(NA)	(NA)	(NA)	(NA)	(NA)	3559
24 120.5	680.4	5 710.3	5 715.1	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	356
3 998.3	95.8	1 125.5	1 135.9	88	91	(NA)	(NA)	(NA)	(NA)	(NA)	3561
3 723.7	154.7	858.2	838.3	98	98	43.8	910.4	1 849.1	3 149.5	164.8	3562
3 050.9	68.8	932.5	979.2	89	94	31.8	709.3	1 470.1	3 270.0	118.1	3563
2 272.4	46.8	334.9	327.1	91	90	29.8	553.6	1 160.0	2 173.5	57.1	3564
2 189.9	54.4	538.4	525.4	90	90	(NA)	(NA)	(NA)	(NA)	(NA)	3565
1 569.0	65.0	404.5	413.7	91	87	24.1	503.9	1 020.9	1 631.6	93.2	3566
1 434.8	27.2	249.5	237.8	88	93	16.1	312.6	624.9	1 102.2	21.1	3567
2 041.1	62.4	472.3	479.3	91	86	26.9	553.0	1 144.1	1 926.8	74.7	3568
3 840.4	105.2	794.4	778.4	91	86	(NA)	(NA)	(NA)	(NA)	(NA)	3569
60 626.5	2 184.7	9 855.9	9 471.7	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	357
33 626.5	1 223.3	5 120.0	4 897.5	87	93	(NA)	(NA)	(NA)	(NA)	(NA)	3571
6 394.8	347.0	1 004.4	910.5	95	77	(NA)	(NA)	(NA)	(NA)	(NA)	3572
1 799.0	58.0	298.9	350.3	89	52	(NA)	(NA)	(NA)	(NA)	(NA)	3575
14 022.2	391.2	2 314.7	2 261.6	80	83	(NA)	(NA)	(NA)	(NA)	(NA)	3577
1 486.8	40.2	288.5	246.7	82	91	15.4	292.2	815.0	1 487.3	52.7	3578
3 297.2	125.1	829.4	805.1	90	69	43.7	963.7	2 689.3	4 256.7	198.5	3579
23 234.9	578.9	3 754.5	3 452.5	(NA)	(NA)	171.7	3 343.6	8 120.7	16 449.9	414.7	358
714.6	25.9	158.6	155.2	97	99	7.4	123.3	215.0	479.4	13.1	3581
455.8	6.5	84.8	77.9	96	94	4.7	83.0	170.0	321.0	4.9	3582
17 035.4	433.3	2 579.9	2 323.4	93	97	120.5	2 393.2	6 049.4	12 390.3	329.3	3585
1 068.7	24.4	213.9	198.7	86	96	8.1	160.0	365.1	676.2	12.8	3586
3 960.4	88.9	717.4	697.4	95	90	31.0	584.0	1 321.3	2 583.0	54.6	3589
19 921.4	795.9	3 021.7	3 061.7	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	359
2 287.4	104.9	279.3	275.5	76	84	31.2	691.9	1 385.1	2 224.5	106.0	3592
1 896.6	81.1	399.5	392.6	83	89	(NA)	(NA)	(NA)	(NA)	(NA)	3593
1 404.4	58.5	351.9	356.9	84	78	(NA)	(NA)	(NA)	(NA)	(NA)	3594
633.0	11.5	134.0	138.7	98	94	7.0	128.3	284.0	516.4	15.9	3596
13 700.0	539.9	1 857.0	1 898.0	96	96	(NA)	(NA)	(NA)	(NA)	(NA)	3599
171 286.4	6 875.1	29 088.1	27 919.1	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	36
8 196.8	186.5	1 234.3	1 310.8	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	361
3 289.5	66.0	479.2	492.3	95	98	39.0	732.1	1 439.1	2 916.0	76.5	3612
4 907.3	120.5	755.1	818.5	92	93	(NA)	(NA)	(NA)	(NA)	(NA)	3613

Table 3. Selected Statistics by Industry Group and Industry: 1987 and 1982—Con.

[Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports

1987 SIC code	Industry group and industry	1987									
		All establishments ²			All employees		Production workers			Value added by manu- facture ³ (million dollars)	Cost of materials ⁴ (million dollars)
		Companies ¹ (number)	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)		
36	Electronic and other electric equipment—Con.										
362	Electrical industrial apparatus	1 963	2 206	911	165.5	3 881.9	110.1	215.4	2 122.7	8 899.2	6 352.5
3621	Motors and generators	349	462	302	74.6	1 663.5	56.5	110.2	1 099.7	3 815.2	2 962.9
3624	Carbon and graphite products	77	95	64	9.8	262.7	7.0	14.8	165.9	604.4	613.1
3625	Relays and industrial controls	1 101	1 168	439	66.6	1 630.7	37.6	72.7	697.3	3 781.2	2 292.7
3629	Electrical industrial apparatus, n.e.c.	472	481	106	14.5	325.1	8.9	17.7	159.8	698.4	483.8
363	Household appliances	381	481	248	116.8	2 642.1	92.5	180.0	1 934.6	7 436.2	9 190.5
3631	Household cooking equipment	65	78	47	21.9	475.8	16.9	33.3	323.6	1 267.9	2 118.3
3632	Household refrigerators and freezers	40	49	26	25.7	650.7	21.6	41.5	518.2	1 450.4	2 161.6
3633	Household laundry equipment	11	18	16	16.7	465.8	14.1	27.7	373.4	1 406.2	1 649.0
3634	Electric housewares and fans	201	230	100	25.1	432.5	19.2	37.0	280.4	1 378.1	1 430.7
3635	Household vacuum cleaners	28	31	21	11.3	247.1	7.6	14.4	162.7	718.2	622.5
3639	Household appliances, n.e.c.	61	75	38	16.0	370.2	13.1	26.0	276.3	1 215.5	1 208.2
364	Electric lighting and wiring equipment ..	1 695	1 951	982	166.6	3 731.9	123.3	242.0	2 405.6	10 259.9	7 829.8
3641	Electric lamp bulbs and tubes	93	127	67	22.2	526.8	19.0	36.8	421.1	2 125.5	977.8
3643	Current-carrying wiring devices	365	430	246	47.9	963.8	34.5	66.3	558.4	2 330.8	1 518.2
3644	Noncurrent-carrying wiring devices	177	209	124	21.5	550.3	15.3	30.8	356.6	1 588.9	1 340.8
3645	Residential lighting fixtures	551	580	220	22.5	398.8	17.5	34.1	254.2	1 005.5	790.9
3646	Commercial lighting fixtures	242	271	148	22.7	478.2	15.6	31.3	278.4	1 367.4	1 375.1
3647	Vehicular lighting equipment	68	72	49	15.5	509.4	11.7	23.6	370.3	957.1	1 025.6
3648	Lighting equipment, n.e.c.	246	262	128	14.4	304.4	9.9	19.3	166.6	884.7	801.5
365	Household audio and video equipment	821	854	244	44.2	849.7	33.8	65.6	523.0	3 064.3	4 815.3
3651	Household audio and video equipment	360	378	150	30.9	583.9	23.6	45.2	362.6	1 702.1	4 247.8
3652	Prerecorded records and tapes	462	476	94	13.3	265.7	10.2	20.4	160.4	1 362.2	567.4
366	Communications equipment	1 303	1 506	914	260.2	7 537.0	128.3	246.2	2 887.5	19 965.6	14 092.3
3661	Telephone and telegraph apparatus	403	469	297	112.3	3 228.4	58.6	109.4	1 402.6	9 588.0	7 956.3
3663	Radio and television communications equipment	572	655	455	126.0	3 775.6	58.5	115.2	1 286.8	9 060.8	5 265.0
3669	Communications equipment, n.e.c.	364	382	162	21.9	533.0	11.1	21.5	198.1	1 316.7	870.9
367	Electronic components and accessories	5 166	5 836	2 881	546.4	13 623.0	329.3	652.1	6 078.6	30 815.4	19 831.9
3671	Electron tubes	102	121	64	28.4	792.4	20.5	41.2	502.0	1 513.0	1 234.7
3672	Printed circuit boards	950	1 009	566	66.6	1 378.5	48.6	100.0	835.5	2 683.1	2 023.8
3674	Semiconductors and related devices	755	853	437	184.6	5 494.8	87.4	175.4	1 853.6	13 429.3	6 462.5
3675	Electronic capacitors	116	148	105	21.7	392.8	16.4	31.7	249.3	892.0	551.3
3676	Electronic resistors	87	118	88	15.7	293.4	10.9	21.4	150.3	602.1	281.3
3677	Electronic coils and transformers	391	416	246	23.9	396.3	18.3	34.8	238.2	747.9	476.1
3678	Electronic connectors	216	271	190	42.8	984.5	29.9	59.7	572.3	2 564.8	1 516.9
3679	Electronic components, n.e.c.	2 743	2 900	1 185	162.6	3 890.4	97.3	187.9	1 677.5	8 383.2	7 285.2
369	Miscellaneous electrical equipment and supplies	2 104	2 328	954	188.0	4 681.8	128.2	253.1	2 688.4	10 870.6	10 457.4
3691	Storage batteries	125	190	117	24.2	626.4	19.4	38.4	473.4	1 705.1	1 623.9
3692	Primary batteries, dry and wet	59	72	36	10.7	231.6	8.2	16.0	155.5	1 132.0	753.0
3694	Engine electrical equipment	432	487	236	67.3	1 718.8	51.9	102.8	1 187.8	3 444.4	4 045.2
3695	Magnetic and optical recording media	181	200	92	25.6	638.6	16.3	33.0	323.9	1 687.2	1 836.6
3699	Electrical equipment and supplies, n.e.c.	1 326	1 379	473	60.3	1 466.4	32.4	63.0	547.8	2 901.9	2 198.7
37	Transportation equipment	9 158	10 505	4 269	1 817.4	58 790.4	1 207.8	2 443.6	34 825.7	137 076.2	198 854.1
371	Motor vehicles and equipment	3 715	4 438	2 085	751.4	23 909.9	607.2	1 234.8	18 422.3	66 367.0	139 925.3
3711	Motor vehicles and car bodies	352	413	174	281.3	10 213.7	235.5	472.7	8 192.3	36 117.7	97 520.4
3713	Truck and bus bodies	657	718	325	37.8	851.3	28.9	58.3	584.3	1 978.4	2 672.2
3714	Motor vehicle parts and accessories	2 306	2 807	1 323	389.6	11 957.9	309.2	637.3	9 027.4	26 451.6	35 607.0
3715	Truck trailers	308	337	182	27.5	570.2	21.7	43.1	406.4	1 130.8	2 314.3
3716	Motor homes	144	165	81	15.1	316.9	11.8	23.4	211.9	688.6	1 811.4
372	Aircraft and parts	1 386	1 622	842	596.0	20 590.2	325.3	666.7	9 712.5	40 802.5	38 755.4
3721	Aircraft	137	155	79	268.2	9 679.5	141.5	282.3	4 341.2	17 311.0	23 140.9
3724	Aircraft engines and engine parts	372	453	289	139.6	4 814.0	79.8	166.2	2 364.4	11 700.4	9 096.4
3728	Aircraft parts and equipment, n.e.c.	925	1 014	474	188.2	6 096.7	104.0	218.1	3 006.9	11 791.1	6 518.0
373	Ship and boat building and repairing ..	2 646	2 766	720	177.4	4 265.6	137.6	272.3	2 933.1	7 656.7	6 238.9
3731	Ship building and repairing	547	590	287	120.2	3 217.9	90.5	178.1	2 166.4	5 212.7	3 291.7
3732	Boat building and repairing	2 108	2 176	433	57.2	1 047.7	47.1	94.3	766.6	2 444.1	2 947.3
374	Railroad equipment	150	174	93	22.1	630.6	14.3	29.1	349.9	1 295.4	1 237.1
3743	Railroad equipment	150	174	93	22.1	630.6	14.3	29.1	349.9	1 295.4	1 237.1
375	Motorcycles, bicycles, and parts	242	246	56	7.4	158.3	5.8	12.1	110.9	367.8	679.6
3751	Motorcycles, bicycles, and parts	242	246	56	7.4	158.3	5.8	12.1	110.9	367.8	679.6
376	Guided missiles, space vehicles, parts	97	141	109	213.7	8 114.2	81.8	159.2	2 607.5	18 256.8	8 391.1
3761	Guided missiles and space vehicles	19	40	38	166.7	6 414.8	62.7	121.4	2 019.7	15 072.7	6 791.3
3764	Space propulsion units and parts	27	35	28	31.8	1 174.7	11.2	22.2	350.0	2 314.2	1 286.1
3769	Space vehicle equipment, n.e.c.	61	66	43	15.1	524.8	7.9	15.6	237.8	869.9	313.7
379	Miscellaneous transportation equipment	1 048	1 118	364	49.4	1 121.5	35.9	69.4	689.5	2 329.9	3 626.7
3792	Travel trailers and campers	384	427	151	17.2	316.2	13.7	25.2	214.0	696.1	1 183.1
3795	Tanks and tank components	50	56	39	16.7	498.7	11.1	22.7	310.0	969.0	1 454.0
3799	Transportation equipment, n.e.c.	617	635	174	15.4	306.6	11.1	21.4	165.5	989.9	989.9

See footnotes at end of table.

were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987—Con.						1982					1987 SIC code
Value of shipments ⁴ (million dollars)	New capital expenditures ⁵ (million dollars)	Inventories ³		Ratios		All employees		Value added by manu- facture (million dollars)	Value of shipments ⁴ (million dollars)	New capital expend- itures ⁵ (million dollars)	
		End of year (million dollars)	Beginning of year (million dollars)	Special- ization (percent)	Coverage (percent)	Number (1,000)	Payroll (million dollars)				
15 266.3	446.3	3 053.1	3 055.8	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	36
6 753.1	201.6	1 130.7	1 113.4	95	89	84.2	1 546.4	3 435.8	6 060.1	275.4	362
1 224.5	47.3	383.3	386.2	96	91	12.0	258.2	550.1	971.4	151.8	3621
6 100.5	165.5	1 277.6	1 292.6	94	90	(NA)	(NA)	(NA)	(NA)	(NA)	3624
1 188.2	31.9	261.6	263.6	88	87	16.3	280.4	644.7	1 111.3	29.3	3629
16 497.8	430.3	2 574.2	2 387.4	(NA)	(NA)	129.4	2 223.1	5 775.9	12 643.5	304.8	363
3 395.8	79.6	648.6	631.0	96	78	23.7	402.1	941.4	2 414.9	51.5	3631
3 518.9	100.3	621.0	498.1	97	98	22.4	441.2	1 032.3	2 470.7	79.1	3632
3 034.8	73.4	342.9	323.2	(D)	100	16.5	335.4	984.1	2 122.2	35.1	3633
2 825.7	57.0	482.1	483.8	91	90	38.7	539.1	1 511.9	3 128.4	73.0	3634
1 324.2	59.6	200.0	184.1	87	87	8.4	151.1	463.6	775.7	17.1	3635
2 398.3	60.2	279.6	267.2	87	91	14.2	252.4	673.8	1 432.0	40.6	3639
18 004.0	479.9	2 914.3	2 750.5	(NA)	(NA)	159.4	2 718.2	6 619.0	12 047.8	340.1	364
3 096.7	101.9	304.2	289.7	98	99	(NA)	(NA)	(NA)	(NA)	(NA)	3641
3 848.1	111.9	680.8	687.3	84	82	44.5	699.8	1 464.2	2 510.3	88.8	3643
2 903.2	73.8	581.2	534.3	84	85	26.3	509.9	1 218.7	2 399.6	69.1	3644
1 772.6	24.7	379.1	339.2	95	91	22.2	308.8	708.7	1 351.8	17.9	3645
2 739.9	60.6	450.2	431.8	88	89	18.9	313.3	774.8	1 671.9	32.0	3646
1 969.6	75.7	230.7	208.7	(D)	96	12.9	281.6	602.4	1 013.6	43.8	3647
1 673.9	31.3	288.1	259.4	86	81	12.2	207.9	566.4	1 028.0	28.0	3648
7 832.8	175.6	1 009.0	892.2	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	365
5 911.2	124.9	853.8	751.6	94	92	48.4	862.3	2 010.6	6 063.9	140.9	3651
1 921.6	50.7	155.2	140.6	100	99	(NA)	(NA)	(NA)	(NA)	(NA)	3652
34 000.6	1 238.9	6 134.7	6 078.5	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	366
17 582.5	552.0	3 109.9	3 170.6	96	96	(NA)	(NA)	(NA)	(NA)	(NA)	3661
14 228.6	622.7	2 511.5	2 406.2	88	87	(NA)	(NA)	(NA)	(NA)	(NA)	3663
2 189.6	64.1	513.3	501.7	93	89	(NA)	(NA)	(NA)	(NA)	(NA)	3669
50 257.7	3 100.8	8 382.1	7 896.6	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	367
2 735.4	103.4	474.2	449.0	83	93	(NA)	(NA)	(NA)	(NA)	(NA)	3671
4 672.6	239.3	586.8	532.3	97	92	(NA)	(NA)	(NA)	(NA)	(NA)	3672
19 794.9	1 920.8	2 928.4	2 823.6	96	95	166.5	3 785.0	8 356.6	12 429.9	1 723.8	3674
1 440.1	78.2	358.2	349.7	93	97	28.9	387.9	728.4	1 188.9	72.3	3675
882.7	43.5	187.1	183.5	95	94	18.3	258.4	524.0	765.8	28.9	3676
1 228.4	29.1	195.2	204.7	90	91	23.7	293.4	537.6	863.3	36.5	3677
4 065.0	153.2	800.0	773.3	87	92	39.7	687.5	1 633.5	2 565.0	168.7	3678
15 438.5	533.3	2 852.2	2 580.5	83	83	(NA)	(NA)	(NA)	(NA)	(NA)	3679
21 230.3	816.9	3 786.4	3 547.4	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	369
3 303.1	111.7	450.9	416.0	97	99	22.9	473.6	1 203.0	2 431.3	109.7	3691
1 877.8	60.8	164.1	159.6	99	96	11.7	192.3	559.2	1 101.8	42.9	3692
7 489.3	238.2	1 121.0	1 044.8	79	90	42.9	820.5	1 851.5	3 464.3	78.4	3694
3 504.0	225.6	434.3	384.9	96	83	(NA)	(NA)	(NA)	(NA)	(NA)	3695
5 056.1	180.6	1 616.1	1 542.2	92	79	(NA)	(NA)	(NA)	(NA)	(NA)	3699
332 935.7	10 779.7	55 061.9	52 117.8	(NA)	(NA)	1 595.9	40 811.9	84 932.3	201 346.1	7 214.4	37
205 923.1	6 578.3	11 908.9	11 451.9	(NA)	(NA)	615.6	15 393.4	34 293.5	112 269.6	4 264.4	371
133 345.6	4 121.4	4 621.6	4 434.8	97	98	240.1	6 821.9	15 455.8	70 739.7	2 368.3	3711
4 588.7	88.5	859.5	730.3	96	93	28.1	497.2	1 176.9	2 463.6	49.2	3713
62 068.4	2 304.1	5 638.7	5 611.3	91	90	321.4	7 614.0	16 764.6	36 293.1	1 791.7	3714
3 433.5	45.7	474.1	437.0	96	99	18.8	339.6	592.2	1 820.6	39.7	3715
2 486.8	18.7	315.0	238.6	95	96	7.2	120.6	304.0	952.7	15.5	3716
77 304.1	2 536.1	32 433.8	30 584.8	(NA)	(NA)	538.6	14 717.5	29 402.2	52 026.7	1 680.3	372
39 092.7	1 052.1	19 881.0	18 850.5	90	95	275.1	7 743.7	15 641.9	28 024.3	836.4	3721
20 262.1	746.8	6 459.8	6 041.1	92	94	130.7	3 544.4	7 572.2	13 809.3	441.1	3724
17 949.3	737.2	6 093.1	5 693.2	82	71	132.8	3 429.4	6 188.1	10 193.1	402.9	3728
13 856.9	406.7	1 748.9	1 465.6	(NA)	(NA)	205.0	4 325.8	7 508.6	13 326.4	496.1	373
8 504.4	273.0	1 054.4	870.1	99	99	166.7	3 737.7	6 379.4	10 967.2	438.4	3731
5 352.5	133.8	694.4	595.6	99	99	38.3	588.1	1 129.2	2 359.2	57.6	3732
2 470.9	58.9	736.0	650.0	(NA)	(NA)	34.5	790.4	1 491.8	3 456.6	142.3	374
2 470.9	58.9	736.0	650.0	88	96	34.5	790.4	1 491.8	3 456.6	142.3	3743
1 062.6	30.7	134.5	141.5	(NA)	(NA)	13.0	224.9	402.5	1 341.1	23.1	375
1 062.6	30.7	134.5	141.5	94	82	13.0	224.9	402.5	1 341.1	23.1	3751
26 285.2	1 075.5	6 913.2	6 590.1	(NA)	(NA)	146.3	4 481.1	9 856.6	14 398.0	461.5	376
21 565.8	818.7	6 306.1	6 030.9	75	93	99.6	3 159.4	7 025.5	10 218.6	293.3	3761
3 537.1	194.4	473.9	415.9	83	82	25.3	737.1	1 534.0	2 221.2	95.8	3764
1 182.2	62.3	133.2	143.4	81	(D)	21.4	584.6	1 297.1	1 958.3	72.4	3769
6 032.8	93.5	1 186.6	1 233.8	(NA)	(NA)	42.9	878.8	1 977.0	4 527.7	146.7	379
1 868.8	16.0	177.0	159.1	94	88	13.8	221.6	442.4	1 281.6	17.0	3792
2 521.8	39.9	748.3	838.4	(D)	(D)	18.2	475.9	1 157.7	2 351.0	114.7	3795
1 642.1	37.6	261.3	236.4	94	94	10.9	181.2	377.0	895.2	15.0	3799

Table 3. Selected Statistics by Industry Group and Industry: 1987 and 1982—Con.

[Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports

1987 SIC code	Industry group and industry	1987									
		Companies ¹ (number)	All establishments ²		All employees		Production workers			Value added by manu- facture ³ (million dollars)	Cost of materials ⁴ (million dollars)
			Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)		
38	Instruments and related products ----	8 962	10 193	4 002	982.4	28 778.1	502.7	1 003.6	11 531.2	70 974.6	37 211.3
381	Search and navigation equipment ----	918	1 084	507	369.4	12 368.0	158.8	314.4	4 466.8	24 738.7	12 208.3
3812	Search and navigation equipment --	918	1 084	507	369.4	12 368.0	158.8	314.4	4 466.8	24 738.7	12 208.3
382	Measuring and controlling devices ----	3 770	4 168	1 684	284.7	7 806.8	150.4	301.2	3 199.6	16 841.2	9 330.5
3821	Laboratory apparatus and furniture ----	246	260	124	17.1	440.9	9.6	19.2	195.2	1 142.4	639.8
3822	Environmental controls ----	230	254	106	26.5	602.4	18.6	36.2	357.3	1 302.7	760.0
3823	Process control instruments ----	707	784	343	53.3	1 476.3	26.7	53.3	560.0	3 204.7	1 601.2
3824	Fluid meters and counting devices ----	148	158	61	10.1	237.1	6.5	12.7	119.9	566.5	381.2
3825	Instruments to measure electricity --	864	930	412	85.2	2 476.7	43.9	91.4	1 005.4	5 090.9	2 662.4
3826	Analytical instruments ----	528	562	207	31.2	892.9	13.5	26.7	287.3	2 107.1	1 363.2
3827	Optical instruments and lenses ----	236	250	127	20.1	581.6	11.3	21.9	260.8	1 167.8	694.7
3829	Measuring and controlling devices, n.e.c. ----	938	970	304	41.0	1 098.8	20.2	39.8	413.9	2 259.0	1 228.1
384	Medical instruments and supplies ----	3 023	3 441	1 309	204.2	5 027.1	123.9	247.1	2 267.1	14 749.3	8 255.5
3841	Surgical and medical instruments ----	1 029	1 136	442	73.1	1 785.8	45.4	93.6	833.6	5 202.2	2 598.9
3842	Surgical appliances and supplies ----	1 329	1 501	550	78.5	1 786.1	51.1	99.5	874.4	5 444.6	3 146.3
3843	Dental equipment and supplies ----	473	505	130	14.6	347.6	8.7	17.2	160.9	899.1	531.5
3844	X-ray apparatus and tubes ----	69	75	43	8.7	257.1	5.5	11.2	136.7	834.5	727.5
3845	Electromedical equipment ----	196	224	144	29.2	850.5	13.2	25.6	261.5	2 368.8	1 251.3
385	Ophthalmic goods ----	479	495	149	24.2	475.0	15.8	31.0	234.0	1 152.9	546.0
3851	Ophthalmic goods ----	479	495	149	24.2	475.0	15.8	31.0	234.0	1 152.9	546.0
386	Photographic equipment and supplies ----	717	787	279	88.0	2 878.3	44.8	92.1	1 224.3	12 908.0	6 233.5
3861	Photographic equipment and supplies ----	717	787	279	88.0	2 878.3	44.8	92.1	1 224.3	12 908.0	6 233.5
387	Watches, clocks, watchcases, and parts ----	213	218	74	11.8	222.9	9.0	17.8	139.4	584.6	637.6
3873	Watches, clocks, watchcases, and parts ----	213	218	74	11.8	222.9	9.0	17.8	139.4	584.6	637.6
39	Miscellaneous manufacturing industries ----	16 082	16 573	3 674	374.3	6 884.2	271.7	520.8	4 028.1	17 452.9	14 665.6
391	Jewelry, silverware, and plated ware --	2 932	2 975	494	49.5	941.0	35.1	68.4	532.5	2 371.6	3 235.1
3911	Jewelry, precious metal ----	2 294	2 324	369	35.5	682.0	24.8	48.8	373.4	1 792.3	2 331.1
3914	Silverware and plated ware ----	205	209	52	6.9	132.7	4.9	8.9	82.0	276.1	254.5
3915	Jewelers' materials and lapidary work ----	437	442	73	7.1	126.3	5.3	10.7	77.0	303.1	649.5
393	Musical instruments ----	402	423	104	12.2	218.1	9.6	18.5	145.9	501.9	318.9
3931	Musical instruments ----	402	423	104	12.2	218.1	9.6	18.5	145.9	501.9	318.9
394	Toys and sporting goods ----	2 592	2 713	740	88.9	1 512.4	67.0	126.2	920.7	4 861.6	4 008.1
3942	Dolls and stuffed toys ----	191	197	53	4.4	57.9	3.3	5.7	31.0	150.3	154.7
3944	Games, toys, and children's vehicles ----	698	716	197	30.9	541.6	23.7	45.1	331.5	1 911.3	1 507.4
3949	Sporting and athletic goods, n.e.c. --	1 708	1 800	490	53.6	913.0	39.9	75.4	558.1	2 799.9	2 346.0
395	Pens, pencils, office, and art supplies ----	960	1 016	249	28.8	540.3	20.7	40.9	319.3	1 432.1	1 093.7
3951	Pens and mechanical pencils ----	106	110	54	8.4	166.5	6.4	12.5	107.6	485.1	325.5
3952	Lead pencils and art goods ----	141	145	40	5.6	103.3	4.0	7.8	58.1	361.5	252.3
3953	Marking devices ----	611	636	92	7.5	136.7	4.9	9.3	73.4	277.2	165.0
3955	Carbon paper and inked ribbons ----	108	125	63	7.3	133.8	5.4	11.4	80.2	308.3	351.0
396	Costume jewelry and notions ----	1 000	1 022	294	31.8	498.2	22.5	43.4	285.8	1 241.3	820.2
3961	Costume jewelry ----	753	760	198	22.2	328.9	14.9	28.4	176.0	852.0	537.6
3965	Fasteners, buttons, needles, and pins ----	247	262	96	9.6	169.3	7.6	15.0	109.9	389.3	282.5
399	Miscellaneous manufactures ----	8 237	8 424	1 793	163.3	3 174.1	116.8	223.3	1 824.0	7 344.4	5 189.8
3991	Brooms and brushes ----	293	301	143	12.3	230.6	9.3	17.5	137.1	550.9	440.7
3993	Signs and advertising specialties ----	3 676	3 778	828	66.3	1 365.1	44.2	85.0	732.1	2 496.1	1 790.6
3995	Burial caskets ----	213	231	80	8.7	163.2	6.9	13.7	112.5	472.1	361.8
3996	Hard surface floor coverings, n.e.c. --	14	21	17	7.6	224.6	6.0	12.6	165.1	740.1	560.5
3999	Manufacturing industries, n.e.c. ----	4 047	4 093	725	68.3	1 190.7	50.5	94.5	677.1	2 785.2	2 036.3
--	Auxiliaries ----	3 879	9 952	5 480	1 233.6	47 201.7	-	-	-	-	-

Note: Payroll, employment, and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated.

¹For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

²Includes establishments with payroll at any time during year.

³Beginning in 1982, all respondents were requested to report their inventories at cost or market prior to adjustment to LIFO cost. This is a change from prior years in which respondents were permitted to value their inventories using any generally accepted accounting method. Consequently, 1982 data for inventories and value added by manufacture are not comparable to prior year data.

⁴Aggregate of cost of materials and value of shipments includes extensive duplication, since products of some industries are used as materials by others (see appendixes).

⁵Includes expenditures for plants in operation and for plants under construction but not yet in operation.

⁶Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products between beginning- and end-of-year inventories.

⁷Value added data include government-owned, contractor-operated plants which were estimated based on averages reported for commercial establishments in prior years. Cost of materials data exclude government-owned materials furnished to government-owned, contractor-operated plants and include fuel and electricity purchased by or for the establishments. Value of shipments data include a calculated value of shipments for government-owned, contractor-operated plants comprised of adjusted value added plus the cost of fuels and electric energy. New capital expenditures include expenditures for plants under construction but not in operation. Capital expenditures of government-owned, contractor-operated plants are excluded from the totals for the industry.

⁸Government-owned, privately-operated establishments did not enter into the calculation of "primary product specialization ratio" or "coverage ratio" as all other dollar receipts for these establishments were included in "miscellaneous receipts."

⁹Minimum percentage; exact percentage withheld to avoid disclosing data for individual companies.

¹⁰Value of shipments and cost of materials for this industry include substantial duplication; therefore, specialization ratios and coverage ratios were not calculated.

¹¹Relationships are not meaningful because of the predominance of receipts for contract and commission work on materials owned by others. Such receipts are treated as primary products for this industry.

¹²Data in value of shipments column represent value of work done rather than value of shipments. Consequently, the formula for computing value added by manufacture was not adjusted for any change between beginning- and end-of-year inventories.

¹³In 1987 and 1982, in addition to employment and payroll reported for operating manufacturing establishments, manufacturing concerns reported separately for auxiliary units which serve the manufacturing establishments of a company (e.g., storage warehouses, power plants, research laboratories, garages, repair shops, etc.) rather than the general public. Separate reports were obtained if these units were at different general locations from the establishments served or if they serviced more than one manufacturing establishment. Figures shown for these units do not represent a separate industry but rather a balancing total for all manufacturing industries.

were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987—Con.						1982						1987 SIC code
Value of shipments ⁴ (million dollars)	New capital expenditures ⁵ (million dollars)	Inventories ³		Ratios		All employees		Value added by manu- facture (million dollars)	Value of shipments ⁴ (million dollars)	New capital expend- itures ⁵ (million dollars)		
		End of year (million dollars)	Beginning of year (million dollars)	Special- ization (percent)	Coverage (percent)	Number (1,000)	Payroll (million dollars)					
107 324.8	3 872.4	23 013.4	21 849.2	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	38	
36 266.8	1 439.0	9 454.6	8 701.5	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	381	
36 266.8	1 439.0	9 454.6	8 701.5	89	90	(NA)	(NA)	(NA)	(NA)	(NA)	3812	
26 042.0	903.1	6 241.9	6 028.9	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	382	
1 769.3	52.3	398.3	385.1	89	92	(NA)	(NA)	(NA)	(NA)	(NA)	3821	
2 068.8	66.3	374.0	371.4	92	89	28.8	497.5	1 025.7	1 549.1	66.8	3822	
4 788.2	129.3	1 094.1	1 086.9	92	92	60.3	1 256.1	2 826.9	4 037.8	127.4	3823	
938.6	34.9	177.4	159.7	95	76	11.1	198.0	460.2	728.3	27.6	3824	
7 703.3	307.5	1 878.7	1 777.0	95	92	89.7	1 888.2	4 290.1	6 094.4	308.3	3825	
3 468.2	125.5	781.2	759.2	87	90	(NA)	(NA)	(NA)	(NA)	(NA)	3826	
1 863.6	83.3	610.2	599.4	91	80	(NA)	(NA)	(NA)	(NA)	(NA)	3827	
3 442.0	104.0	928.0	890.2	86	80	(NA)	(NA)	(NA)	(NA)	(NA)	3829	
22 865.3	748.2	4 303.8	4 068.6	(NA)	(NA)	189.2	3 558.5	9 712.2	15 133.3	675.8	384	
7 779.5	354.6	1 459.7	1 407.7	92	94	56.9	999.5	2 884.8	4 084.5	230.2	3841	
8 534.1	215.3	1 441.1	1 341.3	90	91	68.8	1 211.1	3 450.8	5 667.1	187.7	3842	
1 420.7	31.5	262.4	253.0	94	98	15.5	281.3	642.8	1 111.7	21.6	3843	
1 554.3	32.0	311.8	304.9	95	86	(NA)	(NA)	(NA)	(NA)	(NA)	3844	
3 576.7	114.7	828.7	761.7	94	88	(NA)	(NA)	(NA)	(NA)	(NA)	3845	
1 689.4	76.7	366.7	351.3	(NA)	(NA)	25.8	408.7	874.2	1 273.0	41.1	385	
1 689.4	76.7	366.7	351.3	94	98	25.8	408.7	874.2	1 273.0	41.1	3851	
19 240.5	681.0	2 415.5	2 477.6	(NA)	(NA)	119.3	3 193.1	10 859.5	17 037.5	752.6	386	
19 240.5	681.0	2 415.5	2 477.6	93	98	119.3	3 193.1	10 859.5	17 037.5	752.6	3861	
1 220.9	24.3	230.8	221.2	(NA)	(NA)	16.8	248.1	483.5	1 187.6	14.6	387	
1 220.9	24.3	230.8	221.2	98	94	16.8	248.1	483.5	1 187.6	14.6	3873	
32 012.0	712.2	5 697.1	5 443.9	(NA)	(NA)	382.6	5 646.9	14 059.1	26 891.4	629.2	39	
5 554.0	59.4	1 506.3	1 422.6	(NA)	(NA)	50.2	770.1	1 784.4	4 378.5	52.3	391	
4 078.1	40.3	1 024.8	954.2	97	92	35.3	535.8	1 278.8	3 039.1	33.4	3911	
528.7	9.9	201.4	198.2	97	99	9.1	148.3	311.9	583.9	11.8	3914	
947.3	9.2	280.1	270.3	92	93	5.8	86.1	193.7	755.5	7.1	3915	
814.1	13.9	184.4	174.0	(NA)	(NA)	17.8	257.8	494.8	915.9	20.1	393	
814.1	13.9	184.4	174.0	97	98	17.8	257.8	494.8	915.9	20.1	3931	
8 798.3	231.8	1 551.0	1 414.5	(NA)	(NA)	98.9	1 389.3	4 610.1	8 255.6	195.4	394	
294.0	4.4	60.4	49.6	99	79	7.3	86.6	209.5	402.7	7.3	3942	
3 381.3	94.2	485.3	419.3	93	94	43.8	625.0	2 622.6	4 476.0	111.5	3944	
5 123.0	133.2	1 005.2	945.5	94	98	47.8	677.7	1 778.0	3 376.8	76.5	3949	
2 535.9	70.9	422.6	416.6	(NA)	(NA)	32.2	484.8	1 262.8	2 371.7	74.8	395	
818.8	23.9	149.8	155.0	94	81	11.6	174.8	472.6	809.4	27.8	3951	
609.3	21.3	128.1	115.9	80	90	6.0	87.5	244.8	445.9	16.2	3952	
442.5	9.7	58.4	57.6	95	84	7.6	107.1	221.4	337.6	7.6	3953	
665.3	16.0	86.2	88.1	98	76	6.9	115.4	324.1	778.8	23.1	3955	
2 061.9	31.8	312.5	308.5	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	396	
1 391.9	11.2	195.7	196.1	94	90	21.1	263.3	588.9	1 027.1	16.6	3961	
670.0	20.5	116.7	112.5	97	93	16.1	212.5	446.6	823.0	41.6	3965	
12 247.7	304.4	1 720.4	1 707.6	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	399	
990.4	26.5	180.9	176.6	88	91	14.1	197.1	432.5	818.1	17.2	3991	
4 282.6	97.8	476.0	467.1	96	97	52.8	870.7	1 583.9	2 692.4	63.1	3993	
839.9	28.8	92.9	97.2	99	100	10.3	145.1	374.6	682.1	36.7	3995	
1 309.7	51.2	182.2	189.0	97	100	5.3	112.1	323.4	604.1	18.2	3996	
4 825.1	100.1	788.3	777.8	93	93	64.0	944.0	2 157.0	4 322.9	93.2	3999	
-	-	-	-	-	-	1 276.0	38 220.4	-	-	-	-	

CHAPTER 2. Industry Statistics

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Table 1. Statistics for Operating Manufacturing Establishments by Major Group: 1987 and Earlier Years

[Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Major group and year	All establishments ¹		All employees		Production workers			Value added by manu- facture ² (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expend- itures (million dollars)
		Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
	ALL INDUSTRIES											
	1987 Census	358 945	120 814	17 716.6	428 449.0	12 242.7	24 300.6	251 432.6	1 165 746.8	1 319 803.1	2 475 901.0	78 647.8
	1986 ASM	(NA)	(NA)	17 086.8	402 466.7	11 765.4	23 178.2	236 599.4	1 035 437.4	1 217 608.6	2 260 314.6	76 354.5
	1985 ASM	(NA)	(NA)	17 508.3	396 610.5	12 174.4	23 731.6	235 790.8	1 000 142.0	1 276 009.6	2 280 183.8	83 058.3
	1984 ASM	(NA)	(NA)	17 854.9	384 921.5	12 572.8	24 637.1	231 783.9	983 227.7	1 288 413.6	2 253 429.3	75 185.8
	1983 ASM	(NA)	(NA)	17 453.1	354 232.2	12 203.0	23 611.6	212 416.4	882 014.5	1 170 237.8	2 045 853.3	61 930.5
	1982 Census	348 385	117 959	17 818.1	341 406.2	12 400.6	23 538.3	204 787.2	824 117.7	1 130 142.7	1 960 205.8	74 561.6
	1981 ASM	(NA)	(NA)	18 919.8	341 319.8	13 542.8	26 233.1	212 200.9	837 506.5	1 193 969.6	2 017 542.5	78 632.3
	1980 ASM	(NA)	(NA)	19 311.4	316 494.5	13 900.1	26 745.7	198 164.0	773 831.3	1 093 567.6	1 852 668.3	70 112.8
	1979 ASM	(NA)	(NA)	19 756.5	298 529.1	14 537.8	28 324.3	192 881.5	747 480.5	999 157.5	1 727 214.6	61 533.0
	1978 ASM	(NA)	(NA)	19 239.4	271 540.9	14 228.7	27 676.5	176 416.8	657 412.0	877 424.7	1 522 937.3	55 209.2
	1977 Census	350 757	113 843	18 515.9	242 031.9	13 691.0	26 686.6	157 163.6	585 165.6	782 417.7	1 358 526.4	47 459.0
	1976 ASM	(NA)	(NA)	17 682.7	212 997.8	13 052.0	25 354.2	137 565.4	511 471.1	681 194.1	1 185 695.3	40 669.4
	1975 ASM	(NA)	(NA)	17 173.8	190 504.1	12 569.1	24 069.4	121 429.2	442 485.1	597 327.2	1 039 377.4	37 262.0
	1974 ASM	(NA)	(NA)	18 712.8	190 574.3	13 970.9	27 239.3	124 983.2	452 477.6	581 710.8	1 017 846.9	35 698.7
	1973 ASM	(NA)	(NA)	18 869.7	178 316.5	14 232.8	28 096.9	118 332.6	405 583.6	478 169.6	875 433.2	26 972.7
	1972 Census	312 671	109 950	18 034.4	160 433.2	13 527.9	26 699.2	105 501.8	353 994.0	407 402.1	756 534.3	24 077.7
	1971 ASM	(NA)	(NA)	17 426.3	144 246.3	12 874.9	25 265.9	93 231.7	314 138.4	356 016.9	670 970.5	20 940.7
	1970 ASM	(NA)	(NA)	18 289.5	141 886.4	13 528.0	26 669.3	91 609.0	300 227.6	336 551.6	634 322.1	22 164.3
	1969 ASM	(NA)	(NA)	19 155.6	142 645.1	14 357.8	28 599.8	93 459.6	304 440.7	341 724.5	642 635.8	22 291.4
	1968 ASM	(NA)	(NA)	18 681.0	132 568.4	14 041.2	28 156.8	87 480.4	285 058.9	320 698.0	603 220.1	20 613.1
	1967 Census	305 680	107 138	18 492.0	123 480.6	13 955.3	27 837.6	81 393.6	261 983.8	298 513.7	557 397.8	21 503.0
20	FOOD AND KINDRED PRODUCTS											
	1987 Census	20 583	9 688	1 448.8	30 267.5	1 029.1	2 019.2	18 899.2	121 602.9	208 755.1	329 725.4	7 197.5
	1986 ASM	(NA)	(NA)	1 408.9	28 567.3	989.5	1 932.2	17 788.7	112 190.5	196 442.9	308 522.6	6 966.2
	1985 ASM	(NA)	(NA)	1 422.5	28 077.3	993.6	1 941.2	17 427.7	104 146.0	197 274.5	301 562.0	7 048.7
	1984 ASM	(NA)	(NA)	1 437.4	27 350.4	1 009.5	1 976.9	17 061.4	98 037.4	202 075.0	300 011.9	6 433.2
	1983 ASM	(NA)	(NA)	1 444.5	26 600.5	1 012.7	1 990.6	16 637.0	93 437.8	193 843.3	287 084.7	5 805.9
	1982 Census	22 130	10 681	1 487.7	26 087.5	1 046.8	2 033.4	16 439.5	88 419.1	192 216.6	280 529.3	6 726.9
	1981 ASM	(NA)	(NA)	1 511.2	24 695.7	1 068.7	2 115.0	15 707.1	80 794.7	191 594.7	272 139.6	6 012.3
	1980 ASM	(NA)	(NA)	1 537.5	23 221.6	1 089.9	2 152.6	14 797.1	75 301.6	181 271.5	255 871.3	5 852.4
	1979 ASM	(NA)	(NA)	1 552.2	21 678.0	1 101.4	2 178.0	13 837.6	68 732.9	167 980.9	235 974.7	5 034.2
	1978 ASM	(NA)	(NA)	1 546.9	20 308.4	1 097.4	2 158.0	12 863.5	62 910.9	153 391.2	216 071.2	4 807.1
	1977 Census	26 656	11 038	1 520.2	18 543.6	1 072.0	2 112.4	11 730.7	56 062.2	136 963.7	192 911.6	4 214.9
	1976 ASM	(NA)	(NA)	1 525.2	15 855.7	1 054.8	2 067.1	9 836.8	48 094.7	123 788.0	172 157.6	3 433.5
	1975 ASM	(NA)	(NA)	1 527.3	15 891.2	1 056.8	2 071.4	9 861.2	48 142.0	123 953.5	172 510.4	3 399.4
	1974 ASM	(NA)	(NA)	1 553.0	14 787.9	1 074.8	2 125.8	9 196.3	44 947.5	118 330.6	162 104.2	3 006.1
	1973 ASM	(NA)	(NA)	1 560.1	13 670.2	1 080.6	2 157.7	8 470.4	39 692.9	97 430.5	135 582.8	2 412.0
	1972 Census	28 193	12 333	1 569.4	12 921.8	1 085.4	2 167.3	8 007.7	35 616.6	79 800.3	115 060.3	2 354.9
	1971 ASM	(NA)	(NA)	1 574.1	12 179.9	1 072.7	2 145.4	7 437.5	34 109.8	69 777.5	103 630.9	2 245.0
	1970 ASM	(NA)	(NA)	1 619.0	11 698.1	1 104.7	2 216.2	7 095.5	32 289.0	66 455.8	98 533.0	2 143.8
	1969 ASM	(NA)	(NA)	1 652.5	11 135.3	1 131.7	2 265.0	6 782.1	29 997.0	63 608.4	93 379.9	1 916.6
	1968 ASM	(NA)	(NA)	1 632.4	10 496.6	1 114.3	2 233.5	6 389.8	28 201.7	59 307.0	87 327.4	1 739.7
	1967 Census	32 518	13 514	1 649.6	10 076.8	1 121.7	2 259.4	6 062.6	26 620.9	57 540.6	83 975.2	1 730.1
21	TOBACCO PRODUCTS											
	1987 Census	137	83	44.7	1 485.6	32.7	61.3	1 010.5	14 263.8	6 490.7	20 757.1	464.3
	1986 ASM	(NA)	(NA)	46.1	1 360.4	33.7	63.0	912.4	12 724.6	6 341.3	19 073.0	659.1
	1985 ASM	(NA)	(NA)	49.2	1 369.4	36.9	67.8	940.9	11 893.7	6 625.7	18 506.8	668.5
	1984 ASM	(NA)	(NA)	51.7	1 353.9	38.6	72.5	933.2	10 786.6	6 683.0	17 439.7	670.3
	1983 ASM	(NA)	(NA)	54.8	1 354.9	41.9	77.5	958.1	9 692.1	6 540.7	16 252.0	648.6
	1982 Census	163	107	57.9	1 323.5	45.3	83.7	957.1	8 964.8	7 099.9	16 061.4	697.3
	1981 ASM	(NA)	(NA)	61.1	1 219.2	49.1	91.5	891.4	6 429.6	6 690.8	13 129.9	726.2
	1980 ASM	(NA)	(NA)	58.0	1 044.8	46.6	88.1	767.4	6 147.6	6 090.9	12 194.6	367.3
	1979 ASM	(NA)	(NA)	58.6	906.0	47.7	90.1	667.9	5 342.7	5 240.1	10 601.3	237.2
	1978 ASM	(NA)	(NA)	59.1	812.5	49.0	92.2	611.8	4 606.7	5 374.7	9 950.7	253.9
	1977 Census	228	123	60.6	750.7	50.4	92.6	570.7	4 334.1	4 729.8	9 050.6	181.5
	1976 ASM	(NA)	(NA)	64.8	704.1	54.8	102.5	543.5	4 127.9	4 659.3	8 786.2	132.8
	1975 ASM	(NA)	(NA)	66.2	654.6	56.2	104.3	513.1	3 721.5	4 342.4	8 059.9	194.9
	1974 ASM	(NA)	(NA)	67.6	607.1	58.1	106.9	478.5	3 216.6	3 966.0	7 139.9	185.4
	1973 ASM	(NA)	(NA)	68.6	557.4	59.3	110.5	440.2	2 900.1	3 446.6	6 340.7	180.4
	1972 Census	272	154	66.3	502.0	57.4	106.7	400.8	2 637.2	3 281.1	5 921.3	133.1
	1971 ASM	(NA)	(NA)	67.1	470.5	58.5	109.2	376.3	2 559.9	2 973.0	5 527.9	94.4
	1970 ASM	(NA)	(NA)	71.4	447.7	62.7	118.5	361.5	2 489.4	2 859.2	5 349.7	56.0
	1969 ASM	(NA)	(NA)	72.2	411.3	63.2	117.3	328.5	2 221.0	2 766.4	4 992.2	60.6
	1968 ASM	(NA)	(NA)	73.9	396.1	65.3	120.6	323.0	2 140.7	2 800.0	4 937.2	50.4
	1967 Census	329	195	75.1	376.8	66.2	125.5	303.6	2 032.0	2 871.7	4 903.6	52.9
22	TEXTILE MILL PRODUCTS											
	1987 Census	6 065	3 413	672.0	11 409.6	575.1	1 175.6	8 728.4	25 660.1	37 565.5	62 786.4	2 027.7
	1986 ASM	(NA)	(NA)	644.3	10 305.8	554.7	1 110.6	7 897.9	22 232.3	33 012.5	55 348.5	1 598.3
	1985 ASM	(NA)	(NA)	658.4	9 967.1	565.3	1 101.4	7 609.2	20 693.3	32 258.3	53 276.5	1 863.3
	1984 ASM	(NA)	(NA)	709.5	10 191.6	610.5	1 197.8	7 852.3	22 110.4	33 683.2	55 488.9	2 002.1
	1983 ASM	(NA)	(NA)	723.3	10 060.5	624.0	1 234.5	7 803.1	21 333.4	32 419.3	53 357.9	1 580.2
	1982 Census	6 630	3 663	717.4	9 046.1	615.5	1 158.9	6 936.2	18 550.2	28 713.4	47 515.4	1 579.0

Table 1. **Statistics for Operating Manufacturing Establishments by Major Group: 1987 and Earlier Years—Con.**

[Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Major group and year	All establishments ¹		All employees		Production workers			Value added by manu- facture ² (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expend- itures (million dollars)
		Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
22	TEXTILE MILL PRODUCTS—Con.											
	1972 Census	7 203	4 505	952.8	6 050.9	836.0	1 726.0	4 806.9	11 715.6	16 499.3	28 063.8	1 127.4
	1971 ASM	(NA)	(NA)	906.8	5 330.1	794.4	1 605.2	4 212.1	9 995.2	14 023.5	24 029.8	872.8
	1970 ASM	(NA)	(NA)	924.5	5 082.0	812.9	1 628.6	4 035.6	9 333.8	13 261.2	22 610.6	811.1
	1969 ASM	(NA)	(NA)	968.4	5 159.1	859.2	1 747.6	4 129.0	9 604.7	13 415.9	22 977.7	849.2
	1968 ASM	(NA)	(NA)	959.1	4 849.6	854.4	1 758.1	3 944.7	9 184.4	13 067.0	21 969.2	690.6
	1967 Census	7 080	4 453	929.0	4 390.9	828.2	1 689.7	3 556.5	8 153.2	11 741.4	19 815.2	733.1
23	APPAREL AND OTHER TEXTILE PRODUCTS											
	1987 Census	23 168	9 520	1 080.6	13 903.6	911.5	1 615.5	9 879.2	32 515.6	32 005.5	64 242.6	736.4
	1986 ASM	(NA)	(NA)	1 016.5	12 471.2	862.5	1 534.8	8 948.9	28 451.3	29 492.9	57 918.6	683.7
	1985 ASM	(NA)	(NA)	1 059.2	12 470.6	904.0	1 580.7	9 003.4	27 728.4	29 130.2	56 993.1	697.1
	1984 ASM	(NA)	(NA)	1 147.5	12 877.0	977.1	1 734.8	9 280.3	28 858.8	29 200.6	57 578.3	742.2
	1983 ASM	(NA)	(NA)	1 181.7	12 791.6	995.9	1 814.6	9 193.4	27 339.4	28 342.7	55 374.7	612.9
	1982 Census	24 391	10 907	1 189.0	12 128.8	1 009.7	1 803.5	8 831.9	26 060.5	27 087.8	53 387.9	654.3
	1981 ASM	(NA)	(NA)	1 251.1	11 804.6	1 078.6	1 929.2	8 734.4	25 639.9	24 657.2	49 829.6	646.0
	1980 ASM	(NA)	(NA)	1 307.3	11 354.3	1 129.5	2 000.5	8 503.4	23 425.5	22 690.7	45 781.8	607.8
	1979 ASM	(NA)	(NA)	1 306.2	10 624.2	1 129.5	1 997.4	7 937.9	21 709.7	21 440.4	43 029.9	523.8
	1978 ASM	(NA)	(NA)	1 321.8	10 190.8	1 151.9	2 020.5	7 671.2	21 287.0	21 749.8	42 742.0	514.0
	1977 Census	26 505	11 932	1 334.3	9 658.6	1 156.6	2 037.6	7 252.8	19 671.3	20 865.5	40 245.1	456.7
	1976 ASM	(NA)	(NA)	1 271.1	8 566.7	1 109.8	2 004.8	6 462.5	16 869.2	18 159.7	34 776.7	422.8
	1975 ASM	(NA)	(NA)	1 214.4	7 701.4	1 058.6	1 890.6	5 778.0	14 749.9	16 339.0	31 431.3	380.7
	1974 ASM	(NA)	(NA)	1 316.7	7 643.3	1 146.7	2 039.7	5 753.5	14 942.6	15 833.3	30 632.1	391.4
	1973 ASM	(NA)	(NA)	1 400.2	7 706.6	1 227.7	2 191.2	5 841.3	14 648.2	15 721.6	30 083.8	387.4
	1972 Census	24 441	12 229	1 368.2	7 211.8	1 198.3	2 161.1	5 461.2	13 487.6	14 532.1	27 809.5	363.4
	1971 ASM	(NA)	(NA)	1 318.9	6 499.9	1 149.1	2 054.5	4 942.7	12 448.4	12 672.2	25 024.5	336.4
	1970 ASM	(NA)	(NA)	1 341.5	6 267.6	1 171.2	2 119.4	4 806.8	11 948.2	11 948.2	23 531.8	299.7
	1969 ASM	(NA)	(NA)	1 381.1	6 402.2	1 209.5	2 202.5	4 944.0	11 571.1	12 692.7	24 283.2	310.8
	1968 ASM	(NA)	(NA)	1 356.0	6 012.3	1 194.0	2 176.8	4 680.6	10 880.9	12 002.5	22 648.9	267.1
	1967 Census	26 393	12 705	1 356.7	5 582.2	1 200.4	2 178.6	4 340.6	10 064.3	10 970.6	21 326.8	208.3
24	LUMBER AND WOOD PRODUCTS											
	1987 Census	33 987	7 370	698.4	12 706.5	581.3	1 151.2	9 523.7	28 664.6	41 258.8	69 746.7	1 825.2
	1986 ASM	(NA)	(NA)	619.5	10 819.7	512.4	1 003.3	8 135.2	23 238.6	34 977.7	58 158.3	1 657.2
	1985 ASM	(NA)	(NA)	612.9	10 407.4	514.2	996.4	7 835.8	21 065.5	33 168.8	54 185.1	1 663.5
	1984 ASM	(NA)	(NA)	643.1	10 352.6	541.5	1 046.8	7 860.0	21 035.1	33 724.9	54 678.8	1 689.0
	1983 ASM	(NA)	(NA)	628.9	9 715.2	531.4	1 018.5	7 507.8	19 530.5	32 027.3	51 304.6	1 204.8
	1982 Census	32 984	6 313	576.4	8 444.5	479.3	893.9	6 446.1	15 376.6	27 125.5	42 934.9	1 342.4
	1981 ASM	(NA)	(NA)	649.4	8 990.9	543.8	1 035.4	6 752.9	17 321.0	29 473.4	46 807.1	1 781.0
	1980 ASM	(NA)	(NA)	698.1	8 904.8	581.7	1 097.7	6 719.9	18 029.9	29 139.8	47 144.0	2 027.1
	1979 ASM	(NA)	(NA)	742.5	9 042.2	632.2	1 221.0	6 989.0	20 107.0	30 063.2	49 826.3	2 067.8
	1978 ASM	(NA)	(NA)	723.2	8 411.1	618.6	1 188.0	6 495.6	18 971.5	27 768.3	46 522.6	1 899.4
	1977 Census	37 302	7 056	692.4	7 424.7	594.8	1 147.6	5 795.0	16 222.8	23 918.7	39 919.4	1 562.6
	1976 ASM	(NA)	(NA)	628.5	6 142.7	543.2	1 039.6	4 816.7	13 453.5	18 120.7	31 239.5	1 232.1
	1975 ASM	(NA)	(NA)	588.1	5 231.1	505.8	946.0	4 049.9	10 355.7	14 623.4	25 094.5	1 264.0
	1974 ASM	(NA)	(NA)	674.2	5 484.8	582.0	1 110.1	4 289.4	11 533.5	15 592.3	26 817.6	1 357.2
	1973 ASM	(NA)	(NA)	722.3	5 470.6	620.2	1 213.7	4 311.2	12 357.3	15 843.9	27 980.6	953.3
	1972 Census	33 948	6 867	691.2	4 985.7	600.9	1 167.8	3 934.9	10 310.3	13 605.8	23 829.7	931.3
	1971 ASM	(NA)	(NA)	530.1	3 461.8	464.2	909.3	2 781.9	6 760.9	8 173.4	14 930.8	716.3
	1970 ASM	(NA)	(NA)	541.8	3 240.5	474.5	925.1	2 591.4	5 869.0	7 214.6	13 044.3	534.9
	1969 ASM	(NA)	(NA)	566.2	3 245.9	502.0	986.0	2 629.8	6 330.6	7 760.6	14 003.9	589.7
	1968 ASM	(NA)	(NA)	551.6	3 019.2	491.1	972.8	2 471.1	5 915.5	7 024.4	12 870.1	483.7
	1967 Census	36 795	5 803	554.0	2 798.9	495.7	977.0	2 290.6	4 973.4	6 231.6	11 205.2	426.0
25	FURNITURE AND FIXTURES											
	1987 Census	11 636	4 072	510.8	9 082.1	409.8	804.8	6 253.1	20 310.4	17 324.0	37 461.9	894.9
	1986 ASM	(NA)	(NA)	466.7	8 030.4	376.1	733.5	5 556.4	17 659.4	15 490.1	33 081.2	778.0
	1985 ASM	(NA)	(NA)	472.3	7 754.6	380.0	726.8	5 345.5	16 478.8	14 764.3	31 293.8	763.3
	1984 ASM	(NA)	(NA)	473.5	7 445.4	383.7	739.6	5 148.7	15 905.6	14 326.1	30 000.2	724.6
	1983 ASM	(NA)	(NA)	443.6	6 615.2	359.3	682.4	4 564.0	14 282.2	12 427.9	26 548.5	600.6
	1982 Census	10 003	3 629	436.0	6 083.7	350.5	651.2	4 189.1	12 828.9	11 228.9	24 128.7	566.2
	1981 ASM	(NA)	(NA)	459.8	5 982.8	374.1	715.8	4 189.1	12 668.7	11 426.3	23 865.0	573.3
	1980 ASM	(NA)	(NA)	472.7	5 623.2	383.8	727.0	3 926.0	11 631.1	10 757.7	22 314.7	575.0
	1979 ASM	(NA)	(NA)	482.9	5 361.9	397.5	770.1	3 814.2	10 998.8	10 299.5	21 067.0	525.6
	1978 ASM	(NA)	(NA)	481.0	5 029.2	396.5	769.0	3 610.9	10 136.2	9 581.7	19 565.9	520.8
	1977 Census	10 235	3 588	463.8	4 448.3	383.6	736.4	3 191.8	8 921.7	8 187.4	16 978.0	388.7
	1976 ASM	(NA)	(NA)	425.7	3 772.5	351.9	664.8	2 690.4	7 370.3	6 946.3	14 231.9	295.4
	1975 ASM	(NA)	(NA)	395.8	3 310.0	324.8	605.3	2 339.4	6 290.0	5 950.6	12 372.9	251.6
	1974 ASM	(NA)	(NA)	459.3	3 569.7	380.6	732.1	2 577.3	6 983.4	6 360.4	13 197.3	350.9
	1973 ASM	(NA)	(NA)	478.6	3 532.2	404.4	790.7	2 561.1	6 735.6	5 981.1	12 609.6	343.8
	1972 Census	9 233	3 646	462.1	3 205.3	384.1	756.0	2 323.6	6 097.2	5 335.1	11 326.9	306.1
	1971 ASM	(NA)	(NA)	435.5	2 820.9	360.1	710.5	2 034.0	4 559.4	4 559.4	9 753.5	196.2
	1970 ASM	(NA)	(NA)	436.9	2 691.2	361.4	715.0	1 937.6	4 875.9	4 216.5	9 074.8	231.0
	1969 ASM	(NA)	(NA)	455.5	2 693.0	381.3	761.2	1 968.0	5 030.6	4 278.3	9 215.6	189.5
	1968 ASM	(NA)	(NA)	433.4	2 452.7	364.3	733.3	1 792.8	4 561.6	3 945.2	8 457.7	177.7
	1967 Census	10 008	3 449	425.3	2 258.3	357.5	715.7	1 653.7	4 169.5	3 619.6	7 749.8	198.0

See footnotes at end of table.

Table 1. Statistics for Operating Manufacturing Establishments by Major Group: 1987 and Earlier Years—Con.

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1987 SIC code	Major group and year	All establishments ¹		All employees		Production workers			Value added by manu- facture ² (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ⁴ (million dollars)	New capital expendi- tures (million dollars)
		Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
26	PAPER AND ALLIED PRODUCTS											
	1987 Census.....	6 292	4 144	611.3	16 859.8	465.7	972.1	11 776.2	50 488.8	58 753.1	108 988.7	5 752.5
	1986 ASM.....	(NA)	(NA)	602.6	16 112.8	458.4	952.7	11 296.9	43 924.5	53 943.5	97 853.2	6 084.4
	1985 ASM.....	(NA)	(NA)	603.9	15 346.0	461.9	943.3	10 779.5	40 422.3	53 014.8	93 392.9	6 272.7
	1984 ASM.....	(NA)	(NA)	612.9	14 883.9	468.1	961.5	10 515.8	40 884.7	54 504.1	94 814.0	5 301.6
	1983 ASM.....	(NA)	(NA)	606.2	13 827.4	460.8	936.6	9 736.7	35 611.6	49 076.3	84 587.0	4 987.3
	1982 Census.....	6 381	4 090	605.6	12 947.5	461.2	923.0	9 040.3	33 375.7	46 620.1	79 895.1	5 098.3
	1981 ASM.....	(NA)	(NA)	635.8	12 643.7	486.6	993.5	8 820.4	32 366.7	48 312.7	80 233.8	4 655.8
	1980 ASM.....	(NA)	(NA)	646.3	11 730.6	493.9	1 006.0	8 203.5	29 760.5	43 437.5	72 791.9	5 128.4
	1979 ASM.....	(NA)	(NA)	657.8	10 810.0	509.1	1 030.3	7 635.6	27 136.3	37 807.9	65 199.4	4 447.0
	1978 ASM.....	(NA)	(NA)	638.6	9 852.3	491.8	995.6	6 939.6	24 396.0	32 679.3	57 000.0	3 736.3
	1977 Census.....	6 545	3 999	628.7	8 942.9	486.3	985.9	6 323.1	22 170.9	30 148.2	52 085.7	3 295.0
	1976 ASM.....	(NA)	(NA)	613.1	8 027.4	475.9	964.6	5 678.1	20 558.6	27 835.2	48 131.1	3 010.4
	1975 ASM.....	(NA)	(NA)	588.4	6 990.3	453.7	900.6	4 872.6	17 943.8	23 792.0	41 711.5	2 718.1
	1974 ASM.....	(NA)	(NA)	648.2	7 022.1	508.7	1 034.6	5 007.8	19 096.4	23 204.5	41 759.5	2 214.4
	1973 ASM.....	(NA)	(NA)	645.3	6 481.9	509.0	1 055.9	4 695.3	15 178.8	17 654.2	32 752.4	1 529.6
	1972 Census.....	6 038	3 956	633.4	5 992.1	498.9	1 040.3	4 320.2	13 064.0	15 240.5	28 262.1	1 335.1
	1971 ASM.....	(NA)	(NA)	631.9	5 536.8	494.7	1 024.7	3 950.6	11 682.1	13 840.0	25 458.1	1 197.4
	1970 ASM.....	(NA)	(NA)	635.9	5 374.1	519.9	1 075.8	3 849.9	11 590.3	13 288.7	24 800.5	1 397.4
	1969 ASM.....	(NA)	(NA)	669.9	5 200.0	530.9	1 128.0	3 757.3	11 426.4	13 091.3	24 426.5	1 420.7
	1968 ASM.....	(NA)	(NA)	642.5	4 749.5	510.2	1 086.2	3 436.0	10 465.5	11 902.6	22 307.8	1 238.3
	1967 Census.....	5 890	3 813	638.9	4 436.2	507.7	1 071.2	3 205.5	9 756.3	11 292.2	20 969.9	1 585.3
27	PRINTING AND PUBLISHING											
	1987 Census.....	61 791	12 616	1 494.0	33 440.0	797.1	1 537.6	15 658.9	90 162.2	46 371.9	136 195.6	4 908.4
	1986 ASM.....	(NA)	(NA)	1 376.2	29 890.4	738.4	1 414.7	14 099.3	78 150.4	40 671.7	118 570.6	4 385.0
	1985 ASM.....	(NA)	(NA)	1 359.8	28 169.2	742.1	1 384.4	13 554.4	73 054.3	39 103.8	111 885.0	4 715.3
	1984 ASM.....	(NA)	(NA)	1 325.1	26 232.3	733.4	1 378.7	12 916.2	67 021.6	36 992.1	103 531.8	3 956.5
	1983 ASM.....	(NA)	(NA)	1 300.7	24 211.7	722.6	1 339.1	12 052.5	60 062.0	33 040.8	92 834.0	3 236.9
	1982 Census.....	53 406	10 871	1 291.8	22 706.9	710.9	1 313.0	11 307.4	54 423.4	31 377.2	85 796.9	3 213.2
	1981 ASM.....	(NA)	(NA)	1 270.1	20 609.3	719.7	1 342.6	10 454.0	49 351.6	28 131.1	77 260.6	3 075.8
	1980 ASM.....	(NA)	(NA)	1 262.8	18 843.1	716.0	1 317.8	9 599.1	44 374.7	25 251.5	69 543.9	2 767.6
	1979 ASM.....	(NA)	(NA)	1 223.0	16 952.6	698.4	1 294.0	8 760.6	40 004.4	22 637.3	62 667.4	2 449.0
	1978 ASM.....	(NA)	(NA)	1 144.8	15 535.8	651.9	1 201.5	8 021.3	35 828.9	20 324.8	56 064.1	2 208.4
	1977 Census.....	49 767	9 132	1 092.2	14 024.5	625.8	1 152.8	7 322.1	31 979.5	17 794.7	49 716.2	1 597.8
	1976 ASM.....	(NA)	(NA)	1 085.8	12 679.8	629.3	1 163.0	6 737.2	27 647.2	15 288.2	42 837.7	1 261.3
	1975 ASM.....	(NA)	(NA)	1 070.4	11 655.3	626.1	1 138.1	6 219.8	24 641.0	13 538.3	38 125.1	1 174.3
	1974 ASM.....	(NA)	(NA)	1 075.7	11 139.3	639.1	1 189.2	6 131.0	23 610.3	12 526.7	35 822.4	1 140.9
	1973 ASM.....	(NA)	(NA)	1 083.5	10 523.4	649.2	1 203.4	5 830.1	21 871.3	11 071.7	32 854.8	1 083.5
	1972 Census.....	42 103	8 619	1 056.2	9 831.3	637.7	1 181.0	5 462.8	20 209.7	10 044.5	30 146.6	1 047.6
	1971 ASM.....	(NA)	(NA)	1 049.1	8 975.9	626.3	1 192.0	5 010.1	18 086.4	8 861.4	26 887.3	941.9
	1970 ASM.....	(NA)	(NA)	1 077.2	8 682.2	652.9	1 265.1	4 903.3	17 232.4	8 557.1	25 756.5	872.8
	1969 ASM.....	(NA)	(NA)	1 090.7	8 337.7	666.5	1 261.6	4 701.8	16 793.4	8 540.9	25 332.7	853.3
	1968 ASM.....	(NA)	(NA)	1 040.0	7 627.0	635.9	1 204.1	4 279.7	15 328.7	7 907.1	23 190.4	756.7
	1967 Census.....	37 989	8 035	1 031.0	7 151.5	631.6	1 196.1	4 011.3	14 355.1	7 518.5	21 738.4	788.1
28	CHEMICALS AND ALLIED PRODUCTS											
	1987 Census.....	12 039	4 895	814.0	25 016.3	462.9	944.7	12 312.5	120 777.6	109 231.1	229 546.1	8 710.6
	1986 ASM.....	(NA)	(NA)	801.6	23 710.9	458.1	927.7	11 755.6	100 013.2	96 550.7	197 090.8	7 907.4
	1985 ASM.....	(NA)	(NA)	826.2	23 344.9	476.0	951.2	11 662.0	95 257.5	101 696.1	197 311.3	8 180.5
	1984 ASM.....	(NA)	(NA)	843.1	22 664.8	490.7	978.7	11 444.4	94 728.2	105 080.3	198 233.1	7 643.2
	1983 ASM.....	(NA)	(NA)	850.7	21 411.2	496.0	980.7	10 867.6	86 472.4	96 893.1	183 205.5	7 082.5
	1982 Census.....	11 901	4 779	872.6	20 835.7	508.6	1 003.5	10 543.8	77 314.8	92 556.9	170 736.9	9 086.8
	1981 ASM.....	(NA)	(NA)	892.3	19 722.8	532.6	1 066.9	10 230.1	80 032.3	102 329.0	180 459.2	9 470.6
	1980 ASM.....	(NA)	(NA)	909.7	18 269.0	544.7	1 080.4	9 482.6	74 384.1	89 331.9	162 517.2	8 770.2
	1979 ASM.....	(NA)	(NA)	895.0	16 515.9	552.0	1 066.0	8 849.9	70 356.0	78 291.9	147 673.7	7 976.0
	1978 ASM.....	(NA)	(NA)	896.3	15 286.5	547.6	1 099.0	8 156.3	61 505.8	68 352.3	129 357.3	7 918.5
	1977 Census.....	12 173	4 602	880.2	13 839.3	543.8	1 089.0	7 446.2	56 720.5	62 293.8	118 153.6	8 198.9
	1976 ASM.....	(NA)	(NA)	850.9	12 365.3	519.9	1 032.0	6 518.7	51 407.4	52 391.9	104 138.7	7 122.2
	1975 ASM.....	(NA)	(NA)	841.8	11 226.7	509.7	1 000.9	5 857.4	44 976.3	45 150.7	89 721.1	6 353.3
	1974 ASM.....	(NA)	(NA)	865.3	10 542.0	541.3	1 083.3	5 689.4	44 431.7	41 472.0	83 744.9	5 071.9
	1973 ASM.....	(NA)	(NA)	852.6	9 440.3	535.2	1 075.3	5 149.3	36 239.6	28 595.7	65 007.7	3 186.3
	1972 Census.....	11 426	4 432	836.4	8 730.7	525.0	1 053.7	4 753.8	32 405.0	25 085.5	57 316.3	2 728.4
	1971 ASM.....	(NA)	(NA)	848.9	8 259.9	528.6	1 060.5	4 451.2	29 431.5	22 489.8	51 873.1	2 937.7
	1970 ASM.....	(NA)	(NA)	881.0	8 003.8	555.7	1 120.6	4 327.0	27 929.6	21 781.8	49 355.2	3 110.7
	1969 ASM.....	(NA)	(NA)	882.6	7 602.5	565.6	1 150.9	4 181.1	27 318.9	21 281.1	48 269.8	2 843.4
	1968 ASM.....	(NA)	(NA)	856.3	6 938.5	550.8	1 116.0	3 845.4	25 810.4	19 984.0	45 622.4	2 788.7
	1967 Census.....	11 799	4 348	841.4	6 443.0	541.4	1 086.1	3 555.2	23 550.1	18 821.2	42 148.3	2 936.1
29	PETROLEUM AND COAL PRODUCTS											
	1987 Census.....	2 232	753	115.9	3 996.2	76.4	158.0	2 458.7	18 518.3	112 776.8	130 414.0	2 340.6
	1986 ASM.....	(NA)	(NA)	124.5	4 214.7	81.8	168.1	2 598.2	17 495.8	103 740.9	124 878.3	2 577.5
	1985 ASM.....	(NA)	(NA)	127.5	4 131.8	83.5	177.6	2 533.9	17 111.6	161 291.2	179 134.9	3 438.0
	1984 ASM.....	(NA)	(NA)	137.4	4 380.3	89.8	191.5	2 648.6	16 163.4	172 755.8	189 010.9	3 774.6
	1983 ASM.....	(NA)	(NA)	146.3	4 409.1	95.1	200.2	2 723.3	21 043.5	170 309.0	192 570.3	4 583.0
	1982 Census.....	2 322	848	151.6	4 338.7	99.6	205.2	2 612.7	22 068.5	185 191.1	208 918.6	6 578.9
	1981 ASM.....	(NA)	(NA)	152.2	4 076.3	101.0	209.0	2 522.1	26 740.3	197 898.1	224 131.4	5 157.9
	1980 ASM.....	(NA)	(NA)	148.9	3 615.1	99.8	199.7	2 134.0	24 815.6	175 641.4	198 673.1	3 614.5
	1979 ASM.....	(NA)	(NA)	157.5	3 418.0	106.2	222.0	2 188.7	28 847.0	121 452.6	148 366.6	3 272.9
	1978 ASM.....	(NA)	(NA)	148.2	3 001.0	103.1	217.4	1 983.0	16 301.0	87 333.4	103 871.1	2 286.1
	1977 Census.....	2 206	773	146.8	2 696.2	101.1	207.9	1 765.4	16 377.6	81 655.4	97 452.7	2 261.3
	1976 ASM.....	(NA)	(NA)	144.4	2 436.7	100.2	205.6	1 577.7	13 168.9	69 392.0	82 346.9	2 711.7
	1975 ASM.....	(NA)	(NA)	141.2	2 147.5	97.9	197.5	1 357.3	10 499.6	59 198.3	69 484.5	2 417.9
	1974 ASM.....	(NA)	(NA)	145.6	1 919.9	101.4	207.9	1 240.9	9 951.1	50 140.5	58 875.8	1 845.1
	1973 ASM.....	(NA)	(NA)	136.6	1 716.0	95.8	193.7	1 110.4	7 739.9	27 421.1	34 899.0	1 107.1

See footnotes at end of table.

Table 1. Statistics for Operating Manufacturing Establishments by Major Group: 1987 and Earlier Years—Con.

[Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Major group and year	All establishments ¹		All employees		Production workers			Value added by manu- facture ² (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expend- itures (million dollars)
		Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
29	PETROLEUM AND COAL PRODUCTS —Con.											
	1972 Census	2 016	720	139.5	1 637.4	98.0	200.5	1 064.0	5 793.2	22 762.5	28 694.7	1 154.2
	1971 ASM	(NA)	(NA)	141.4	1 564.1	97.0	197.6	993.4	5 616.8	21 460.7	26 935.1	1 304.1
	1970 ASM	(NA)	(NA)	144.0	1 478.1	99.6	204.8	941.6	5 477.8	19 493.6	24 882.9	1 217.6
	1969 ASM	(NA)	(NA)	142.5	1 381.7	98.5	198.0	861.9	5 745.9	18 723.5	24 430.5	1 074.3
	1968 ASM	(NA)	(NA)	141.0	1 284.3	98.4	201.3	825.1	5 567.1	17 664.3	23 190.0	1 064.9
	1967 Census	1 880	704	141.6	1 216.1	99.2	202.1	786.3	5 425.9	16 748.4	22 043.4	999.2
30	RUBBER AND MISCELLANEOUS PLASTICS PRODUCTS											
	1987 Census	14 589	7 302	831.4	17 581.4	643.5	1 283.4	11 697.2	44 436.8	42 516.5	86 634.3	3 410.3
	1986 ASM	(NA)	(NA)	741.3	15 273.3	571.8	1 137.1	10 123.6	37 236.4	36 032.2	73 384.6	2 998.1
	1985 ASM	(NA)	(NA)	742.5	14 722.9	578.4	1 137.7	9 794.2	35 708.3	35 754.1	71 324.0	3 429.7
	1984 ASM	(NA)	(NA)	731.5	13 996.6	573.8	1 138.4	9 439.4	34 183.4	35 838.0	69 512.4	2 803.9
	1983 ASM	(NA)	(NA)	684.4	12 305.4	527.2	1 036.4	8 229.1	29 804.7	30 312.8	60 329.4	1 766.8
	1982 Census	13 449	5 978	681.7	11 596.8	522.6	996.0	7 691.1	27 218.9	27 950.0	55 415.8	2 199.2
	1981 ASM	(NA)	(NA)	691.2	11 047.1	541.9	1 049.5	7 392.7	26 005.9	27 750.3	53 172.8	2 217.1
	1980 ASM	(NA)	(NA)	703.2	10 140.5	544.4	1 032.5	6 777.3	22 568.7	24 700.2	47 341.8	2 068.1
	1979 ASM	(NA)	(NA)	753.7	10 146.4	592.9	1 150.2	6 938.7	23 112.4	24 238.5	46 847.9	2 208.2
	1978 ASM	(NA)	(NA)	748.0	9 422.2	587.1	1 142.6	6 448.5	21 157.2	22 339.3	43 195.8	2 254.8
	1977 Census	11 943	5 294	721.3	8 536.0	563.7	1 110.6	5 841.6	19 740.0	20 217.8	39 552.8	1 645.3
	1976 ASM	(NA)	(NA)	627.4	6 741.7	488.9	938.4	4 517.9	15 950.3	15 885.2	31 765.3	1 317.0
	1975 ASM	(NA)	(NA)	585.0	5 922.5	451.0	873.0	3 984.6	13 599.3	13 610.1	27 191.2	1 139.9
	1974 ASM	(NA)	(NA)	661.3	6 203.1	522.6	1 024.9	4 303.3	14 826.2	13 628.2	27 902.2	1 457.0
	1973 ASM	(NA)	(NA)	672.1	5 812.3	532.0	1 041.7	4 080.1	13 439.7	11 058.2	24 383.7	1 305.0
	1972 Census	9 224	4 187	617.8	5 165.2	486.8	968.2	3 604.9	11 653.2	9 466.0	20 923.7	1 059.6
	1971 ASM	(NA)	(NA)	543.5	4 285.7	422.2	844.4	2 968.4	9 521.2	7 541.6	17 043.7	723.8
	1970 ASM	(NA)	(NA)	545.8	3 998.6	426.9	849.2	2 759.1	8 502.7	7 038.3	15 471.4	828.4
	1969 ASM	(NA)	(NA)	567.4	4 026.0	450.8	915.5	2 846.4	8 431.1	7 324.6	15 637.4	856.6
	1968 ASM	(NA)	(NA)	541.9	3 705.4	430.1	875.4	2 624.1	7 730.4	6 799.1	14 377.4	760.0
	1967 Census	6 456	3 122	516.7	3 286.5	410.1	815.5	2 312.5	6 799.5	5 974.4	12 758.6	677.2
31	LEATHER AND LEATHER PRODUCTS											
	1987 Census	2 198	915	129.0	1 830.6	109.0	205.9	1 301.5	4 377.9	4 755.0	9 082.4	100.8
	1986 ASM	(NA)	(NA)	129.8	1 690.3	109.7	196.2	1 213.4	3 611.4	4 156.4	7 808.7	83.2
	1985 ASM	(NA)	(NA)	146.7	1 863.2	124.8	225.1	1 342.3	4 107.5	4 444.1	8 567.2	103.4
	1984 ASM	(NA)	(NA)	169.5	2 045.8	145.2	259.6	1 482.6	4 510.7	4 809.0	9 331.3	113.7
	1983 ASM	(NA)	(NA)	188.8	2 225.1	161.9	289.9	1 613.0	4 852.6	5 005.8	9 830.9	121.5
	1982 Census	2 735	1 313	199.8	2 218.5	171.3	304.1	1 623.1	4 772.9	4 917.1	9 719.2	132.0
	1981 ASM	(NA)	(NA)	227.6	2 363.3	196.8	347.3	1 766.0	5 230.3	5 344.4	10 467.5	199.9
	1980 ASM	(NA)	(NA)	232.4	2 199.9	200.5	345.5	1 635.3	4 851.2	4 941.4	9 789.3	149.8
	1979 ASM	(NA)	(NA)	238.6	2 085.4	206.6	362.4	1 542.4	4 248.5	4 809.4	9 002.6	130.3
	1978 ASM	(NA)	(NA)	244.4	1 996.0	213.9	382.8	1 513.5	4 010.1	4 335.0	8 224.7	135.1
	1977 Census	3 075	1 486	242.5	1 859.7	211.5	381.9	1 408.1	3 718.8	3 932.6	7 607.4	96.2
	1976 ASM	(NA)	(NA)	247.1	1 804.9	215.9	391.2	1 378.7	3 558.6	3 690.5	7 175.9	89.5
	1975 ASM	(NA)	(NA)	239.8	1 651.5	208.9	377.7	1 249.9	3 187.0	3 111.1	6 322.9	77.4
	1974 ASM	(NA)	(NA)	255.8	1 604.1	223.1	401.8	1 228.8	3 120.2	3 099.2	6 176.5	76.1
	1973 ASM	(NA)	(NA)	267.7	1 595.3	234.5	434.4	1 230.3	2 962.1	3 075.9	6 022.5	80.9
	1972 Census	3 201	1 657	273.4	1 589.3	240.6	449.0	1 230.8	2 917.3	2 895.3	5 769.4	74.4
	1971 ASM	(NA)	(NA)	273.8	1 500.6	240.4	441.8	1 155.0	2 760.8	2 437.4	5 218.4	69.2
	1970 ASM	(NA)	(NA)	295.8	1 526.0	261.0	479.6	1 183.7	2 819.7	2 468.6	5 288.4	62.8
	1969 ASM	(NA)	(NA)	326.7	1 592.9	290.7	537.9	1 252.3	2 898.0	2 594.1	5 463.9	64.2
	1968 ASM	(NA)	(NA)	334.1	1 582.1	298.2	561.4	1 252.7	2 911.9	2 604.1	5 485.5	78.8
	1967 Census	3 685	1 967	328.7	1 458.8	293.3	549.2	1 147.0	2 626.5	2 540.9	5 169.0	62.1
32	STONE, CLAY, AND GLASS PRODUCTS											
	1987 Census	16 191	5 134	523.7	12 349.1	404.8	832.6	8 794.8	33 383.1	28 142.8	61 476.6	2 417.3
	1986 ASM	(NA)	(NA)	514.1	11 745.2	399.0	814.2	8 351.8	30 676.7	26 535.8	57 274.2	2 332.6
	1985 ASM	(NA)	(NA)	520.0	11 481.9	404.1	813.7	8 198.0	28 877.7	26 193.9	55 112.0	2 773.7
	1984 ASM	(NA)	(NA)	533.4	11 223.5	416.4	830.8	8 039.0	27 706.6	25 931.1	53 404.6	2 367.0
	1983 ASM	(NA)	(NA)	525.8	10 517.8	408.3	811.1	7 508.8	25 326.2	23 586.8	48 708.7	1 745.7
	1982 Census	16 545	4 753	531.5	10 096.7	408.4	796.3	7 163.6	22 985.7	22 149.3	45 180.6	2 309.0
	1981 ASM	(NA)	(NA)	589.7	10 574.5	462.5	910.3	7 568.6	24 853.9	23 549.1	48 000.4	2 580.5
	1980 ASM	(NA)	(NA)	613.3	10 062.3	479.7	945.5	7 190.3	24 051.0	22 380.9	46 083.1	3 046.2
	1979 ASM	(NA)	(NA)	654.2	9 896.5	521.7	1 035.8	7 232.8	24 467.6	22 013.2	45 962.8	2 606.1
	1978 ASM	(NA)	(NA)	639.3	9 076.7	509.4	1 019.3	6 622.3	22 534.9	19 537.6	41 719.3	2 531.2
	1977 Census	17 744	5 201	613.7	7 943.1	484.4	960.7	5 766.6	19 129.6	16 444.8	35 476.6	1 881.4
	1976 ASM	(NA)	(NA)	598.9	7 085.9	473.8	938.8	5 144.6	16 772.9	14 055.8	30 634.8	1 503.9
	1975 ASM	(NA)	(NA)	588.8	6 389.7	461.0	901.1	4 595.8	14 848.8	12 301.0	27 074.0	1 581.2
	1974 ASM	(NA)	(NA)	638.7	6 432.4	509.2	1 015.1	4 732.2	14 599.6	12 085.9	26 336.1	1 587.5
	1973 ASM	(NA)	(NA)	643.8	6 079.4	510.8	1 027.9	4 456.5	13 801.0	10 179.9	23 861.6	1 391.4
	1972 Census	16 015	5 301	623.2	5 546.9	492.5	998.0	4 037.3	12 586.7	9 062.8	21 538.5	1 195.2
	1971 ASM	(NA)	(NA)	582.6	4 801.6	462.4	927.8	3 503.4	10 757.8	7 816.6	18 534.7	927.8
	1970 ASM	(NA)	(NA)	591.3	4 530.5	470.2	950.6	3 320.7	9 785.8	7 048.6	16 761.1	919.8
	1969 ASM	(NA)	(NA)	608.3	4 440.4	484.0	987.4	3 257.0	9 851.1	7 054.1	16 815.8	907.9
	1968 ASM	(NA)	(NA)	590.1	4 064.6	468.9	950.7	2 971.4	9 211.7	6 609.3	15 783.3	734.0
	1967 Census	15 580	4 911	589.9	3 825.5	499.3	948.4	2 784.1	8 333.4	6 146.0	14 449.4	820.9

See footnotes at end of table.

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1987 SIC code	Major group and year	All establishments ¹		All employees		Production workers			Value added by manu- facture ² (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expen- diture (million dollars)
		Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
33	PRIMARY METAL INDUSTRIES											
	1987 Census.....	6 661	3 687	701.1	19 777.3	541.5	1 114.0	14 162.8	46 121.1	74 692.3	120 248.2	3 850.9
	1986 ASM.....	(NA)	(NA)	689.8	18 881.6	529.0	1 055.8	13 471.7	38 092.3	66 366.5	105 647.2	3 180.4
	1985 ASM.....	(NA)	(NA)	746.9	19 961.7	573.5	1 138.4	14 315.4	38 238.5	70 660.7	110 531.0	4 680.0
	1984 ASM.....	(NA)	(NA)	795.5	20 651.9	616.0	1 227.4	14 915.7	42 290.9	77 231.6	119 088.9	4 184.5
	1983 ASM.....	(NA)	(NA)	771.2	19 259.6	585.1	1 122.2	13 642.4	35 996.6	71 323.2	108 524.3	4 361.8
	1982 Census.....	7 061	3 904	854.1	20 602.7	637.7	1 166.8	14 465.8	33 291.4	68 791.4	104 666.8	4 666.1
	1981 ASM.....	(NA)	(NA)	1 062.8	25 322.2	825.9	1 600.1	18 564.1	49 550.6	94 306.9	141 942.1	6 338.9
	1980 ASM.....	(NA)	(NA)	1 096.1	23 556.4	854.2	1 638.6	17 306.2	47 619.2	86 661.9	133 930.1	5 543.4
	1979 ASM.....	(NA)	(NA)	1 190.3	23 995.9	952.9	1 887.9	18 184.9	50 882.1	87 973.6	137 379.4	5 129.3
	1978 ASM.....	(NA)	(NA)	1 149.4	21 331.0	920.5	1 837.4	16 179.5	44 246.4	74 749.0	118 082.0	4 691.9
	1977 Census.....	7 375	3 980	1 113.6	18 745.0	885.3	1 744.0	14 065.2	37 568.2	66 171.3	103 179.4	4 496.8
	1976 ASM.....	(NA)	(NA)	1 106.0	16 974.7	874.8	1 712.6	12 639.4	34 182.1	59 322.2	93 001.8	4 178.6
	1975 ASM.....	(NA)	(NA)	1 088.9	14 993.6	855.7	1 637.5	11 029.7	30 366.8	51 949.8	80 816.9	4 164.7
	1974 ASM.....	(NA)	(NA)	1 247.8	15 900.2	1 001.0	1 995.0	12 102.4	37 297.3	58 720.5	95 618.0	3 751.8
	1973 ASM.....	(NA)	(NA)	1 221.6	14 148.0	995.4	2 027.7	10 872.8	28 614.2	44 027.0	72 727.3	2 334.1
	1972 Census.....	6 792	3 901	1 142.9	12 166.6	922.8	1 849.9	9 202.2	23 258.2	35 709.1	58 429.7	2 160.8
	1971 ASM.....	(NA)	(NA)	1 169.3	11 204.6	931.4	1 831.8	8 300.6	21 119.8	31 867.5	53 067.3	2 197.5
	1970 ASM.....	(NA)	(NA)	1 261.2	11 251.9	1 013.5	2 009.0	8 410.2	21 444.6	32 629.8	53 510.7	2 736.7
	1969 ASM.....	(NA)	(NA)	1 310.5	11 447.4	1 064.3	2 171.5	8 687.7	22 729.0	32 956.6	55 257.9	2 815.9
	1968 ASM.....	(NA)	(NA)	1 274.7	10 479.2	1 033.4	2 090.4	7 922.2	20 973.2	29 346.3	50 317.0	3 102.3
	1967 Census.....	6 837	4 082	1 281.0	9 850.9	1 041.5	2 088.7	7 457.3	19 978.2	27 219.9	46 730.9	3 134.1
34	FABRICATED METAL PRODUCTS											
	1987 Census.....	36 092	13 884	1 458.0	34 999.7	1 077.8	2 183.4	22 781.3	74 957.3	72 668.5	147 366.1	4 816.4
	1986 ASM.....	(NA)	(NA)	1 419.5	33 115.8	1 049.8	2 102.6	21 816.7	68 620.6	69 264.6	137 975.9	4 485.0
	1985 ASM.....	(NA)	(NA)	1 472.8	33 150.0	1 103.5	2 200.1	21 976.8	69 161.5	70 490.3	139 579.7	4 345.6
	1984 ASM.....	(NA)	(NA)	1 482.3	31 843.7	1 112.2	2 219.5	21 158.5	67 644.8	69 079.9	135 869.6	3 752.5
	1983 ASM.....	(NA)	(NA)	1 418.0	28 823.7	1 050.4	2 072.8	18 979.3	61 326.8	60 963.1	122 119.0	2 772.7
	1982 Census.....	35 560	13 642	1 459.7	28 282.6	1 073.3	2 070.4	18 455.9	58 927.6	59 393.8	119 444.0	3 685.8
	1981 ASM.....	(NA)	(NA)	1 567.6	28 531.4	1 182.8	2 336.8	19 134.0	61 558.2	62 600.6	123 661.6	4 573.2
	1980 ASM.....	(NA)	(NA)	1 616.8	26 700.6	1 224.0	2 381.3	17 908.5	57 917.1	58 627.2	116 194.3	3 891.5
	1979 ASM.....	(NA)	(NA)	1 671.0	25 609.6	1 286.4	2 539.9	17 552.7	56 892.6	57 971.7	113 597.2	3 345.2
	1978 ASM.....	(NA)	(NA)	1 625.1	23 382.5	1 251.2	2 475.5	16 106.8	50 599.8	51 689.3	101 336.0	3 189.1
	1977 Census.....	33 712	12 739	1 555.7	21 035.9	1 191.6	2 373.8	14 428.8	45 511.5	45 384.8	90 023.5	2 606.1
	1976 ASM.....	(NA)	(NA)	1 472.0	18 395.3	1 123.3	2 218.1	12 605.5	39 317.6	38 578.4	78 074.6	2 214.0
	1975 ASM.....	(NA)	(NA)	1 417.9	16 345.5	1 070.7	2 086.3	11 037.0	34 225.8	34 340.7	68 928.3	2 057.4
	1974 ASM.....	(NA)	(NA)	1 575.7	16 583.3	1 208.4	2 416.3	11 479.3	35 275.2	33 686.4	67 276.6	1 948.9
	1973 ASM.....	(NA)	(NA)	1 584.6	15 561.1	1 227.3	2 477.2	10 881.6	31 069.3	28 483.9	58 560.5	1 718.7
	1972 Census.....	29 525	11 675	1 493.7	13 820.9	1 148.0	2 302.7	9 544.3	27 021.2	24 936.4	51 104.4	1 315.0
	1971 ASM.....	(NA)	(NA)	1 279.2	11 022.1	980.9	1 971.4	7 577.5	21 966.3	20 051.9	42 026.4	1 042.5
	1970 ASM.....	(NA)	(NA)	1 333.5	10 780.0	1 025.2	2 080.3	7 430.1	20 887.8	19 074.9	39 620.9	1 335.7
	1969 ASM.....	(NA)	(NA)	1 399.1	10 773.1	1 097.1	2 227.5	7 550.7	20 739.5	19 045.3	39 597.1	1 286.7
	1968 ASM.....	(NA)	(NA)	1 357.8	10 038.1	1 067.7	2 192.6	7 061.7	19 504.5	17 957.0	37 340.5	1 041.2
	1967 Census.....	27 418	10 741	1 341.8	9 319.5	1 056.9	2 160.9	6 541.6	18 042.6	16 704.9	34 577.8	1 118.4
35	INDUSTRIAL MACHINERY AND EQUIPMENT											
	1987 Census.....	52 091	13 849	1 844.4	50 553.1	1 142.8	2 313.7	26 092.6	118 187.4	99 569.5	217 669.9	6 954.6
	1986 ASM.....	(NA)	(NA)	1 863.0	49 645.2	1 140.6	2 271.2	25 421.9	108 365.0	97 924.8	208 529.3	6 690.6
	1985 ASM.....	(NA)	(NA)	1 991.1	50 904.6	1 237.3	2 436.7	26 533.7	110 435.5	102 779.0	215 238.7	8 323.0
	1984 ASM.....	(NA)	(NA)	2 051.9	50 092.7	1 297.6	2 558.0	26 749.1	112 346.3	100 764.0	210 408.3	8 035.2
	1983 ASM.....	(NA)	(NA)	1 989.5	45 106.7	1 234.2	2 380.2	23 588.4	94 752.8	81 391.7	178 962.5	6 425.2
	1982 Census.....	52 912	14 264	2 188.7	46 910.7	1 358.0	2 596.8	25 093.1	102 269.8	83 787.8	187 895.7	8 537.2
	1981 ASM.....	(NA)	(NA)	2 379.7	48 642.9	1 561.0	3 086.3	27 762.2	111 393.7	92 276.9	201 539.1	8 821.9
	1980 ASM.....	(NA)	(NA)	2 410.8	44 603.7	1 595.7	3 149.1	25 771.3	99 435.4	83 327.6	180 727.3	7 844.6
	1979 ASM.....	(NA)	(NA)	2 409.8	40 681.6	1 640.5	3 266.9	24 305.5	92 527.6	77 969.6	166 470.2	6 817.0
	1978 ASM.....	(NA)	(NA)	2 235.4	35 385.7	1 519.2	2 996.1	21 222.1	78 938.5	67 036.5	143 169.3	5 739.7
	1977 Census.....	48 197	12 446	2 083.3	30 557.5	1 413.8	2 803.0	18 298.4	67 222.5	56 531.6	122 187.7	4 402.4
	1976 ASM.....	(NA)	(NA)	1 959.0	26 469.5	1 332.0	2 632.8	15 829.0	57 308.0	48 604.3	105 430.6	3 421.5
	1975 ASM.....	(NA)	(NA)	1 966.5	24 555.1	1 340.8	2 644.8	14 778.0	51 044.2	44 581.1	95 752.8	3 354.4
	1974 ASM.....	(NA)	(NA)	2 126.1	24 713.4	1 496.7	3 024.8	15 431.1	52 494.9	43 548.6	92 487.2	3 312.2
	1973 ASM.....	(NA)	(NA)	1 992.0	21 581.7	1 399.2	2 849.9	13 490.7	44 581.3	35 336.9	77 827.2	2 320.2
	1972 Census.....	40 792	10 595	1 827.8	18 523.2	1 267.2	2 538.3	11 358.5	37 562.7	29 204.1	65 820.8	1 906.6
	1971 ASM.....	(NA)	(NA)	1 743.5	16 235.0	1 187.2	2 334.8	9 740.0	30 680.9	24 536.7	55 559.9	1 696.0
	1970 ASM.....	(NA)	(NA)	1 890.6	16 637.8	1 306.4	2 624.2	10 222.4	31 814.3	24 875.0	56 080.6	1 854.9
	1969 ASM.....	(NA)	(NA)	1 943.7	16 441.7	1 377.2	2 829.7	10 401.8	32 009.2	24 705.9	55 767.7	1 866.3
	1968 ASM.....	(NA)	(NA)	1 848.8	14 754.9	1 320.4	2 700.8	9 427.8	28 777.8	22 071.3	50 605.5	1 743.1
	1967 Census.....	37 892	10 629	1 864.5	14 226.3	1 349.0	2 785.0	9 236.1	27 836.4	21 231.6	48 477.2	1 868.1
36	ELECTRONIC AND OTHER ELECTRIC EQUIPMENT											
	1987 Census.....	15 922	7 544	1 564.7	38 738.2	999.6	1 959.3	19 716.8	95 815.3	76 195.1	171 286.4	6 875.1
	1986 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	1985 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	1984 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	1983 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	1982 Census.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	1981 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	1980 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	1979 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	1978 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	1977 Census.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	1976 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	1975 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	1974 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	1973 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

See footnotes at end of table.

Table 1. Statistics for Operating Manufacturing Establishments by Major Group: 1987 and Earlier Years—Con.

[Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Major group and year	All establishments ¹		All employees		Production workers			Value added by manu- facture ² (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expen- diture ³ (million dollars)
		Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
36	ELECTRONIC AND OTHER ELECTRIC EQUIPMENT—Con.											
	1972 Census	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	1971 ASM	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	1970 ASM	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	1969 ASM	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	1968 ASM	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	1967 Census	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
37	TRANSPORTATION EQUIPMENT											
	1987 Census	10 505	4 269	1 817.4	58 790.4	1 207.8	2 443.6	34 825.7	137 076.2	198 854.1	332 935.7	10 779.7
	1986 ASM	(NA)	(NA)	1 769.5	56 707.6	1 168.6	2 381.0	33 625.5	125 705.6	188 037.4	313 825.1	11 295.3
	1985 ASM	(NA)	(NA)	1 757.0	54 591.8	1 179.6	2 406.6	33 171.4	120 953.1	180 856.2	301 386.0	10 377.7
	1984 ASM	(NA)	(NA)	1 709.3	50 310.4	1 159.8	2 424.6	30 768.0	114 498.7	170 835.9	280 241.0	8 026.3
	1983 ASM	(NA)	(NA)	1 616.0	44 640.1	1 072.1	2 152.1	26 917.4	99 642.9	144 422.6	244 079.6	5 061.0
	1982 Census	9 443	3 800	1 595.9	40 811.9	1 059.6	2 051.4	24 378.8	84 932.3	120 010.5	201 346.1	7 214.4
	1981 ASM	(NA)	(NA)	1 749.4	42 335.6	1 185.3	2 319.8	26 096.6	82 938.2	123 699.2	205 221.7	10 795.0
	1980 ASM	(NA)	(NA)	1 772.1	38 877.9	1 213.0	2 372.9	24 109.0	76 591.8	113 734.6	186 515.8	7 957.9
	1979 ASM	(NA)	(NA)	1 923.7	38 493.9	1 383.5	2 758.8	25 199.5	80 387.8	124 489.4	201 625.0	6 853.8
	1978 ASM	(NA)	(NA)	1 865.7	34 961.6	1 364.5	2 750.7	23 260.8	72 956.5	118 077.2	188 773.3	5 834.3
	1977 Census	10 174	3 653	1 768.2	30 673.5	1 284.4	2 612.7	20 314.3	64 291.1	103 489.6	166 954.0	4 670.9
	1976 ASM	(NA)	(NA)	1 604.6	22 772.0	1 137.0	2 216.8	14 405.4	45 337.3	68 677.6	113 500.6	2 762.1
	1975 ASM	(NA)	(NA)	1 604.4	22 770.3	1 137.9	2 217.3	14 418.8	45 155.2	68 591.1	113 218.3	2 794.3
	1974 ASM	(NA)	(NA)	1 738.0	22 609.2	1 249.6	2 469.9	14 554.1	44 973.3	64 875.4	108 245.2	3 176.1
	1973 ASM	(NA)	(NA)	1 835.7	22 571.9	1 340.6	2 732.4	14 833.8	45 684.9	65 555.6	110 710.7	2 530.1
	1972 Census	8 802	3 618	1 719.0	19 880.0	1 246.2	2 527.4	12 848.6	39 799.4	55 767.8	94 704.9	2 660.2
	1971 ASM	(NA)	(NA)	1 620.8	16 697.8	1 186.0	2 370.8	11 047.9	34 845.0	51 251.9	86 920.4	1 258.2
	1970 ASM	(NA)	(NA)	1 688.6	16 072.6	1 200.8	2 393.3	10 230.0	29 990.2	42 293.2	72 589.5	1 611.6
	1969 ASM	(NA)	(NA)	1 919.7	17 650.7	1 398.1	2 823.0	11 454.6	34 053.2	48 012.3	81 786.0	1 942.6
	1968 ASM	(NA)	(NA)	1 887.6	16 811.2	1 376.5	2 893.3	11 135.4	32 866.2	46 997.1	79 494.3	1 596.9
	1967 Census	7 483	3 354	1 834.1	15 173.7	1 336.5	2 745.6	9 918.2	28 173.9	40 419.9	68 512.3	1 822.4
38	INSTRUMENTS AND RELATED PRODUCTS											
	1987 Census	10 193	4 002	982.4	28 778.1	502.7	1 003.6	11 531.2	70 974.6	37 211.3	107 324.8	3 872.4
	1986 ASM	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	1985 ASM	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	1984 ASM	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	1983 ASM	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	1982 Census	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	1981 ASM	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	1980 ASM	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	1979 ASM	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	1978 ASM	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	1977 Census	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	1976 ASM	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	1975 ASM	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	1974 ASM	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	1973 ASM	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	1972 Census	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	1971 ASM	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	1970 ASM	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	1969 ASM	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	1968 ASM	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	1967 Census	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
39	MISCELLANEOUS MANUFACTURING INDUSTRIES											
	1987 Census	16 573	3 674	374.3	6 884.2	271.7	520.8	4 028.1	17 452.9	14 665.6	32 012.0	712.2
	1986 ASM	(NA)	(NA)	326.1	5 892.3	236.3	459.1	3 520.4	14 622.0	12 652.3	27 219.3	655.4
	1985 ASM	(NA)	(NA)	328.0	5 725.7	234.6	452.4	3 415.3	14 031.6	12 442.4	26 527.1	666.8
	1984 ASM	(NA)	(NA)	355.4	5 861.6	263.4	497.4	3 544.0	14 740.4	13 220.7	27 761.7	675.0
	1983 ASM	(NA)	(NA)	374.9	5 674.4	280.0	518.4	3 415.8	13 702.4	12 696.2	26 425.7	542.7
	1982 Census	15 871	3 568	382.6	5 646.9	280.8	522.8	3 413.6	14 059.1	12 791.2	26 891.4	629.2
	1981 ASM	(NA)	(NA)	413.1	5 630.0	307.5	580.9	3 447.1	13 953.5	13 172.0	26 939.8	612.6
	1980 ASM	(NA)	(NA)	428.4	5 366.3	321.5	603.0	3 318.4	12 431.4	12 691.1	24 955.7	643.1
	1979 ASM	(NA)	(NA)	443.0	5 014.0	338.8	641.9	3 147.9	11 934.7	11 288.1	23 015.6	595.4
	1978 ASM	(NA)	(NA)	447.3	4 765.4	343.1	639.8	2 972.8	10 862.8	10 182.2	20 779.6	533.3
	1977 Census	17 259	3 794	440.7	4 406.4	338.7	626.7	2 745.3	10 291.0	9 061.4	19 150.7	473.6
	1976 ASM	(NA)	(NA)	410.1	3 867.9	317.4	592.0	2 446.5	8 821.7	7 579.4	16 285.7	560.7
	1975 ASM	(NA)	(NA)	393.4	3 487.1	302.6	564.6	2 168.1	7 580.1	6 707.0	14 486.9	301.9
	1974 ASM	(NA)	(NA)	435.0	3 477.1	336.9	636.5	2 253.7	7 666.5	6 625.0	13 990.1	362.3
	1973 ASM	(NA)	(NA)	447.1	3 351.1	351.9	660.2	2 187.5	7 166.2	5 969.1	13 046.2	341.3
	1972 Census ⁴	15 187	3 753	445.6	3 184.6	350.1	661.5	2 086.8	6 776.8	5 558.8	12 186.2	317.0
	1971 ASM	(NA)	(NA)	411.3	2 739.9	319.1	604.4	1 773.2	5 707.3	4 470.2	10 122.0	262.5
	1970 ASM	(NA)	(NA)	429.3	2 684.9	337.0	643.3	1 752.3	5 433.1	4 348.3	9 743.4	253.2
	1969 ASM	(NA)	(NA)	448.5	2 664.8	362.5	689.7	1 796.4	5 296.3	4 426.0	9 665.4	240.0
	1968 ASM	(NA)	(NA)	430.7	2 461.3	348.8	669.2	1 666.7	4 950.9	4 074.7	8 945.0	209.0
	1967 Census	14 072	3 845	423.1	2 291.0	344.4	662.0	1 552.5	4 599.4	3 773.4	8 310.7	213.5

¹Includes establishments with payroll at any time during year.

²Beginning in 1982, all respondents were requested to report their inventories at cost or market prior to adjustment to LIFO cost. This is a change from prior years in which respondents were permitted to value their inventories using any generally accepted accounting method. Consequently, 1982 data for inventories and value added by manufacture are not comparable to prior year data.

³Aggregate of cost of materials and value of shipments includes extensive duplication, since products of some industries are used as materials by others (see appendixes).

⁴Excludes ordnance and accessories. In the 1972 SIC revision, major group 19 was eliminated as a separate major industry group and its industries were reclassified to major groups 34, 36, 37, and 38.

Table 2. Industry Group Statistics by State: 1987 and 1982

[Includes industry groups with 450 manufacturing employees or more. Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry group and geographic area	1987											1982	
		All establishments ²		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materials ⁴ (million dollars)	Value of shipments ⁴ (million dollars)	New capital expendi- tures (million dollars)	All em- ployees ³ (1,000)	Value added by manu- facture (million dollars)
		Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
	All industries	368 897	126 294	18 950.3	475 651.0	12 242.7	24 300.6	251 432.6	1 165 746.8	1 319 803.1	2 475 901.0	78 647.8	19 094.1	824 117.7
	Alabama	5 843	2 067	347.3	6 962.5	268.8	530.7	4 745.6	18 652.1	22 299.1	40 901.4	1 360.1	329.6	12 045.7
	Alaska	1 427	1 106	11.1	271.7	8.4	16.7	191.4	634.0	1 892.6	2 710.7	68.6	12.8	769.2
	Arizona	4 151	1 131	184.1	4 669.0	105.9	214.2	2 148.8	11 299.0	9 597.0	20 757.7	836.9	149.8	6 162.4
	Arkansas	3 390	1 210	205.5	3 814.6	161.7	326.3	2 651.6	10 826.9	14 680.3	25 307.6	891.5	189.8	7 755.3
	California	49 930	15 702	2 104.3	57 147.8	1 240.2	2 432.9	25 697.0	132 637.5	121 049.4	252 728.8	8 571.7	2 004.8	94 388.4
	Colorado	4 718	1 104	183.8	4 958.4	103.3	204.0	2 285.6	12 045.8	11 176.4	23 235.9	791.5	191.4	8 056.8
	Connecticut	6 747	2 460	388.9	11 110.6	216.5	440.6	4 825.6	22 348.9	15 506.1	37 400.3	1 293.3	424.4	16 373.4
	Delaware	673	262	66.6	2 090.8	32.8	65.2	760.0	3 866.0	6 926.1	10 729.7	276.9	67.9	2 466.7
	District of Columbia	486	124	17.0	494.1	5.2	10.7	118.8	1 525.4	615.0	2 128.3	43.6	16.7	928.6
	Florida	15 603	4 046	499.3	10 954.0	308.7	614.7	5 222.7	27 574.2	29 292.7	56 612.7	1 910.7	454.4	18 111.8
	Georgia	9 187	3 527	569.9	11 933.1	409.4	820.1	7 239.9	33 708.1	42 271.2	75 709.2	2 471.5	503.0	19 191.8
	Hawaii	1 022	225	22.2	440.2	15.2	28.8	254.2	1 405.3	2 048.8	3 447.9	102.0	23.6	1 119.6
	Idaho	1 491	371	52.9	1 148.5	38.3	72.4	698.3	3 057.0	3 957.4	7 004.7	234.8	47.6	2 076.5
	Illinois	18 404	7 188	989.6	26 234.7	609.3	1 227.5	13 401.4	63 350.1	69 064.7	132 204.3	4 425.8	1 068.7	47 704.6
	Indiana	8 641	3 612	602.0	15 756.5	426.7	858.9	9 874.1	39 278.8	44 706.5	83 787.9	3 363.9	585.1	25 747.0
	Iowa	3 569	1 259	206.1	4 971.1	140.1	277.5	3 043.4	14 469.0	21 003.8	35 408.6	834.2	212.8	12 077.9
	Kansas	3 275	1 139	189.1	4 597.2	120.7	245.3	2 608.5	12 908.8	18 492.4	31 055.8	1 011.2	170.6	8 436.5
	Kentucky	3 693	1 513	251.6	5 865.2	184.8	356.2	3 752.3	18 091.7	23 979.1	41 827.1	1 746.0	246.6	11 819.7
	Louisiana	3 816	1 111	161.4	4 175.9	110.8	224.9	2 587.8	16 425.8	34 284.0	50 699.7	1 419.8	202.0	11 754.6
	Maine	2 172	603	101.6	2 192.1	77.4	151.3	1 457.0	5 270.6	5 423.1	10 661.5	539.4	110.2	4 037.8
	Maryland	4 244	1 474	230.4	5 955.7	139.6	273.5	2 994.3	14 020.0	14 009.9	28 009.4	875.2	234.4	10 133.8
	Massachusetts	11 006	4 184	591.3	15 211.3	348.3	690.5	7 018.9	35 769.7	27 358.3	62 793.7	2 169.0	643.4	25 967.5
	Michigan	16 010	5 745	980.1	30 627.8	635.5	1 300.7	17 393.0	60 258.6	86 313.4	146 338.8	4 793.5	883.9	39 118.1
	Minnesota	7 112	2 425	374.2	10 141.7	214.9	428.0	4 512.7	23 151.9	24 615.9	47 603.9	1 765.5	350.0	15 366.9
	Mississippi	3 318	1 249	218.9	3 827.3	171.4	337.4	2 620.6	10 502.6	13 949.8	24 380.6	647.7	201.7	7 824.9
	Missouri	7 290	2 580	418.8	10 390.0	264.5	519.0	5 401.6	25 916.7	33 891.0	59 889.3	1 620.1	405.9	18 333.8
	Montana	1 239	184	20.1	425.8	14.8	28.8	296.2	1 112.0	2 393.8	3 497.9	97.0	20.2	713.5
	Nebraska	1 876	631	90.7	1 937.6	64.2	128.8	1 211.9	5 819.2	10 356.9	16 076.2	317.9	91.1	4 444.5
	Nevada	975	241	23.7	521.4	15.8	30.9	299.6	1 279.3	1 209.4	2 470.4	114.0	20.4	862.6
	New Hampshire	2 328	735	107.9	2 508.7	71.5	141.6	1 426.8	8 188.6	4 351.1	12 214.2	339.8	107.4	4 004.0
	New Jersey	14 442	5 467	690.8	18 549.9	394.4	780.9	8 389.3	42 526.6	40 273.2	82 451.0	2 312.5	754.0	31 656.0
	New Mexico	1 322	284	34.7	713.3	23.7	47.3	432.5	1 652.9	2 502.5	4 226.4	196.4	33.0	1 397.7
	New York	29 608	9 500	1 278.7	33 915.8	723.3	1 403.5	14 408.2	80 033.3	66 098.6	145 656.5	4 296.5	1 418.8	62 906.6
	North Carolina	10 995	4 767	842.4	16 293.4	637.3	1 258.8	10 293.0	47 007.4	48 762.0	95 317.3	2 958.7	798.6	28 492.2
	North Dakota	627	139	15.4	310.4	10.4	20.4	180.1	979.0	1 616.6	2 574.0	47.0	14.8	652.1
	Ohio	17 544	6 882	1 002.2	30 765.2	713.4	1 447.9	17 490.4	71 707.4	87 237.8	158 559.9	4 742.2	1 102.0	49 640.9
	Oklahoma	3 728	1 018	151.2	3 629.3	104.8	207.0	2 195.6	9 856.9	14 288.8	24 073.9	538.4	196.9	8 143.0
	Oregon	6 353	1 643	202.9	4 767.2	144.3	280.0	2 948.6	11 610.3	13 831.1	25 351.7	735.4	185.1	7 973.0
	Pennsylvania	17 844	7 233	1 037.5	25 301.6	681.9	1 330.1	13 731.1	57 605.2	61 606.1	118 651.3	3 440.5	1 180.4	44 824.1
	Rhode Island	2 878	899	112.0	2 292.0	76.3	149.4	1 252.3	4 787.5	4 418.0	9 166.4	276.4	113.8	3 792.7
	South Carolina	4 534	1 889	365.8	7 323.9	279.6	566.2	4 742.2	19 111.9	22 300.3	41 211.7	1 586.0	367.5	12 218.7
	South Dakota	574	231	27.5	497.9	19.9	38.8	310.2	1 476.1	2 406.8	3 858.7	79.3	24.5	1 100.2
	Tennessee	6 864	2 799	484.9	9 869.2	359.2	707.4	6 282.6	27 049.7	30 819.7	57 752.9	1 904.7	461.6	17 822.9
	Texas	20 370	6 183	914.0	23 240.9	560.8	1 125.2	11 443.9	63 899.1	99 496.7	162 750.9	4 548.0	1 058.5	53 357.8
	Utah	2 083	611	88.8	2 073.1	54.8	107.6	1 002.3	4 882.9	5 468.9	10 286.7	403.5	83.2	3 455.1
	Vermont	1 262	333	48.5	1 140.0	30.6	58.3	551.6	2 543.1	2 201.8	4 752.7	334.4	46.8	2 036.8
	Virginia	6 137	2 230	429.2	9 740.1	305.3	600.3	5 728.2	26 857.3	25 453.9	51 902.1	1 542.7	391.1	17 255.6
	Washington	7 639	1 950	309.7	8 841.6	184.2	353.5	4 262.0	19 016.1	28 698.3	46 531.8	1 244.8	291.4	12 595.5
	West Virginia	1 619	488	83.8	2 107.6	58.8	115.4	1 312.3	5 404.4	5 980.0	11 560.8	434.8	95.8	4 049.2
	Wisconsin	9 157	3 460	514.0	12 763.4	349.9	693.6	7 615.5	31 653.0	38 051.0	69 595.8	2 027.4	496.7	22 545.6
	Wyoming	500	80	7.7	179.7	5.4	10.7	118.6	492.8	1 595.7	2 074.3	65.3	9.9	407.7
20	Food and kindred products	20 583	9 688	1 448.8	30 267.5	1 029.1	2 019.2	18 899.2	121 602.9	208 755.1	329 725.4	7 197.5	1 487.7	88 419.1
	Alabama	264	143	27.9	457.1	20.4	40.0	271.7	1 134.6	2 773.4	3 895.4	84.9	24.9	845.0
	Alaska	103	53	5.0	82.5	4.2	7.9	66.2	264.9	640.3	906.1	33.8	5.4	185.4
	Arizona	176	72	7.9	160.7	4.5	9.3	79.1	655.5	1 149.5	1 799.3	33.3	6.6	348.8
	Arkansas	259	153	37.9	556.6	31.7	62.4	412.7	1 644.3	4 317.8	5 899.7	169.3	30.4	1 095.5
	California	2 521	1 181	162.2	3 690.2	115.6	222.2	2 315.2	15 542.2	20 007.2	35 450.7	751.7	173.5	10 936.5
	Colorado	309	122	20.1	545.5	13.2	26.2	305.2	1 785.1	3 612.8	5 403.4	175.1	22.2	1 064.5
	Connecticut	190	76	10.2	237.3	6.5	12.0	133.7	970.7	1 004.7	1 987.0	35.7	9.5	546.4
	Delaware	56	30	8.9	134.4	7.4	13.9	93.6	521.4	968.5	1 486.1	24.8	8.4	476.5
	District of Columbia	16	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	58.4
	Florida	688	284	44.7	907.7	29.5	59.6	514.4	4 209.1	6 670.6	10 776.1	241.5	45.3	2 914.6
	Georgia	453	266	52.8	954.5	38.7	74.5	604.1	3 576.7	5 806.9	9 379.6	185.9	50.6	2 456.6
	Hawaii	229	72	9.8	187.9	7.1	13.8	117.6	575.8	784.0	1 360.9	49.3	11.1	398.6
	Idaho	138	70	14.8	249.5	12.2	21.8	180.5	902.1	1 737.6	2 633.9	43.6	13.5	657.1
	Illinois	991	507	81.0	1 942.1	59.2	119.1	1 282.6	9 031.3	13 376.7	22 426.0	501.7	88.0	6 810.0
	Indiana	390	216	34.5	812.9	22.1	44.2	446.8	3 266.5	4 504.4	7 775.1	230.8	32.9	2 063.5
	Iowa	445	232	40.0	889.0	30.1	60.5	612.3	3 728.1	10 696.2	14 412.4	214.9	44.8	3 130.8
	Kansas	273	129	25.3	508.2	19.3	39.7	356.1	1 806.6	7 236.8	9 039.1	77.4	21.5	1 201.8
	Kentucky	244	126	17.1	368.3	10.7	21.2	210.2	1 689.0	2 703.5	4 286.6	79.7	19.1	1 346.8
	Louisiana	378	192	19.3	351.0	11.8	23.3	186.5	1 381.8	2 717.3	4 098.9	63.0	23.0	1 048.8
	Maine	141	60	7.0	120.4	5.1	9.5	72.0	348.1	529.1	876.0	26.1	9.2	330.9
	Maryland	322	156	22.8	482.9	16.0	30.9	285.2	1 977.0	2 872.3	4 868.1	109.2	23.3	

Table 2. Industry Group Statistics by State: 1987 and 1982—Con.

[Includes industry groups with 450 manufacturing employees or more. Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry group and geographic area	1987										1982			
		All establishments ²		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materials ⁴ (million dollars)	Value of shipments ⁴ (million dollars)	New capital expend- itures (million dollars)	All em- ployees ³ (1,000)	Value added by manu- facture (million dollars)	
		E ¹	Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							Wages (million dollars)
20	Food and kindred products—Con.														
	Ohio	-	757	364	54.5	1 262.8	36.3	71.8	774.0	5 870.5	7 734.3	13 588.0	333.4	62.8	4 260.2
	Oklahoma	-	231	94	12.4	237.5	8.1	16.1	129.5	834.2	1 598.9	2 429.8	73.3	12.5	588.3
	Oregon	E1	376	162	22.2	405.6	16.7	30.0	262.6	1 449.5	2 022.2	3 436.0	61.8	22.6	1 128.3
	Pennsylvania	E1	1 127	545	83.1	1 774.0	58.1	110.2	1 107.4	7 039.3	9 586.5	16 588.3	360.7	85.1	4 950.0
	Rhode Island	E2	103	32	2.6	55.2	1.5	2.9	24.6	134.6	282.9	421.6	10.4	2.6	117.9
	South Carolina	-	162	91	14.1	243.5	10.2	20.2	154.6	1 032.5	1 641.3	2 682.4	36.3	12.2	534.8
	South Dakota	-	94	45	7.4	139.6	5.6	10.2	93.0	383.6	1 447.5	1 825.5	17.3	7.5	422.5
	Tennessee	-	356	194	36.7	785.2	23.6	47.5	443.4	3 342.4	5 152.5	8 492.6	307.1	36.3	2 160.8
	Texas	-	1 172	555	85.4	1 702.4	58.6	119.0	1 024.9	7 038.8	13 093.2	20 110.1	391.8	89.9	5 329.3
	Utah	-	154	71	8.9	153.0	6.3	11.5	93.2	675.4	1 337.7	2 012.5	43.1	7.6	338.9
	Vermont	E1	85	33	2.7	53.6	1.7	3.4	29.5	148.9	476.6	626.1	16.0	2.3	93.3
	Virginia	-	392	204	34.8	607.9	25.2	47.7	387.0	2 534.5	4 241.6	6 770.0	130.4	36.8	2 059.2
	Washington	-	533	247	29.9	594.5	23.4	42.8	399.7	2 146.0	4 109.4	6 235.2	99.4	30.2	1 498.7
	West Virginia	E1	73	34	4.0	77.4	2.4	4.9	38.2	206.1	297.5	505.0	11.7	5.7	225.3
	Wisconsin	-	869	420	53.5	1 127.4	41.0	81.0	774.5	4 697.5	10 788.5	15 468.9	254.7	56.3	3 324.4
	Wyoming	E1	35	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	64.8
201	Meat products	-	3 240	1 534	340.5	5 700.7	285.1	571.6	4 274.7	13 842.3	63 224.2	77 002.3	885.9	317.7	11 002.3
	Alabama	-	69	40	12.8	163.1	11.5	22.0	135.0	273.3	900.3	1 169.8	26.7	10.4	174.8
	Arizona	-	22	8	.9	15.4	.8	1.7	11.2	24.5	287.2	311.3	1.0	.6	19.7
	Arkansas	-	72	49	24.9	327.2	22.4	43.4	272.8	582.5	1 973.9	2 548.5	89.5	16.2	375.1
	California	E1	215	116	15.2	305.1	11.9	24.6	210.7	808.4	2 570.1	3 379.4	39.7	18.7	720.5
	Colorado	-	57	23	5.3	91.1	4.5	9.0	74.6	253.0	2 003.6	2 256.5	(D)	4.8	100.0
	Connecticut	E1	25	13	.7	14.5	.5	.9	9.1	34.8	96.5	131.1	1.4	.6	13.3
	Delaware	-	12	8	4.9	58.7	4.4	8.2	48.8	99.4	339.4	438.6	13.1	3.8	45.5
	Florida	E1	81	30	5.6	82.2	4.6	8.6	59.4	182.1	798.2	980.0	7.9	4.8	109.3
	Georgia	E1	111	67	20.8	279.7	17.8	33.7	212.6	536.5	1 570.9	2 106.1	44.5	18.6	348.7
	Hawaii	E2	22	6	.5	6.6	.3	.6	4.1	13.1	43.1	55.8	1.8	.4	8.1
	Idaho	-	25	7	1.1	18.5	.8	1.8	14.1	54.4	498.9	553.9	3.1	1.1	46.6
	Illinois	-	167	74	13.1	267.1	10.5	21.4	191.8	664.3	3 188.6	3 851.7	(D)	12.6	538.7
	Indiana	E1	71	35	6.5	109.9	5.3	10.6	84.6	230.3	988.1	1 219.0	17.4	5.4	164.1
	Iowa	-	105	62	19.3	373.2	16.3	32.6	293.7	945.0	5 963.5	6 900.5	54.5	22.2	1 013.2
	Kansas	-	60	25	12.4	234.5	11.2	24.2	201.4	661.9	5 319.9	5 987.5	30.0	8.8	353.5
	Kentucky	-	48	19	3.7	72.0	2.7	5.7	46.8	176.6	627.1	801.5	13.6	3.3	155.1
	Louisiana	E1	47	17	2.2	30.0	1.8	3.5	22.1	88.1	228.9	318.0	3.0	2.5	59.3
	Maine	E1	14	6	.9	13.3	.7	1.6	9.1	25.0	67.7	92.4	(D)	1.0	41.0
	Maryland	E1	45	28	5.3	78.7	4.4	8.7	56.0	196.3	513.5	710.8	7.7	5.5	121.6
	Massachusetts	E3	52	21	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.4	92.9
	Michigan	-	94	40	7.5	154.5	5.8	12.4	103.8	385.2	1 604.3	1 991.9	(D)	7.7	360.8
	Minnesota	-	77	42	13.1	227.3	10.6	21.6	155.6	759.0	2 288.4	3 029.3	43.3	10.6	558.8
	Mississippi	-	66	29	9.7	137.0	8.3	16.8	102.1	348.3	915.7	1 260.6	26.1	9.2	254.6
	Missouri	-	122	44	9.1	141.9	7.8	16.1	110.7	379.0	1 464.2	1 835.1	23.9	8.4	315.2
	Nebraska	-	86	52	13.3	230.7	11.5	23.5	180.6	643.2	5 394.9	6 027.2	32.4	15.0	734.6
	New Hampshire	-	6	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	20.1
	New Jersey	E2	73	34	4.1	84.3	3.1	6.7	56.4	204.9	540.1	742.7	9.1	4.9	179.8
	New Mexico	E1	14	5	.7	10.4	.6	1.2	8.2	17.5	137.7	155.1	.9	.8	17.7
	New York	E2	146	70	5.0	117.5	3.9	8.0	81.2	251.3	898.6	1 150.3	(D)	6.4	275.4
	North Carolina	-	109	57	19.8	271.4	17.8	34.8	220.5	686.3	1 807.5	2 481.4	34.7	15.3	327.1
	Ohio	E1	142	63	8.3	172.1	6.4	13.6	121.7	426.1	1 723.1	2 138.6	(D)	10.3	393.0
	Oklahoma	E1	59	18	3.2	46.0	2.7	5.2	33.4	87.8	535.0	622.1	17.7	2.7	61.9
	Oregon	E2	50	19	2.1	39.3	1.6	3.1	27.0	118.3	262.6	382.5	4.7	2.2	79.5
	Pennsylvania	E1	188	101	14.2	257.6	11.1	21.7	174.2	614.7	2 408.0	3 019.4	42.2	13.6	493.7
	South Carolina	E1	36	17	3.0	45.6	2.5	5.0	32.2	125.5	321.1	443.7	6.7	2.5	64.9
	South Dakota	-	18	10	4.6	85.8	3.7	6.6	62.8	217.7	1 048.0	1 267.4	5.5	4.5	285.4
	Tennessee	E1	77	38	7.4	126.4	6.0	12.4	91.2	330.9	1 188.2	1 522.0	(D)	6.7	198.7
	Texas	-	216	102	23.6	394.7	20.1	43.0	301.9	626.2	5 914.8	6 538.0	56.9	21.1	782.9
	Utah	-	19	7	1.8	29.8	1.4	2.6	20.9	106.7	458.6	565.1	3.8	1.2	34.5
	Virginia	-	69	37	14.1	204.0	11.9	22.9	159.4	508.4	1 864.9	2 374.0	42.0	12.8	365.2
	Washington	-	50	22	3.6	63.8	3.2	6.3	53.4	158.0	1 176.4	1 340.1	8.0	3.8	130.1
	West Virginia	E1	20	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	35.3
	Wisconsin	-	95	46	11.8	240.0	9.1	18.5	164.9	801.3	2 660.4	3 469.3	40.9	10.7	469.2
202	Dairy products	E1	2 366	1 288	141.5	3 217.4	87.0	174.5	1 802.0	11 846.6	32 942.6	44 755.1	744.4	139.9	8 359.8
	Alabama	-	21	17	2.1	39.6	.8	1.7	13.7	110.2	268.3	378.2	9.1	2.1	73.9
	Arizona	-	15	9	1.3	31.1	.7	1.6	16.5	228.6	301.6	529.2	7.5	.8	56.8
	Arkansas	-	16	10	1.0	19.2	.4	.8	7.9	65.4	143.1	208.6	7.6	1.0	30.8
	California	E2	198	99	10.5	285.2	6.7	13.6	175.4	1 024.0	3 160.3	4 177.5	63.3	10.2	636.4
	Colorado	E2	32	17	1.7	37.2	.9	1.6	17.8	98.3	290.4	387.7	4.4	1.7	79.4
	Connecticut	E2	28	10	1.1	27.3	.6	1.4	13.9	118.0	198.9	316.3	3.6	1.6	61.9
	Florida	-	50	29	3.9	80.9	2.1	4.3	37.5	316.0	709.5	1 023.1	20.4	3.3	239.0
	Georgia	E2	26	17	2.3	44.2	1.1	2.2	19.5	122.8	328.7	451.9	7.8	2.7	91.8
	Hawaii	E3	12	6	.6	16.3	.2	.5	5.4	35.7	70.2	105.7	2.7	.5	20.3
	Idaho	-	22	17	1.3	26.1	1.0	1.9	19.1	123.2	451.0	569.8	5.8	1.1	89.9</

Table 2. Industry Group Statistics by State: 1987 and 1982—Con.

[Includes industry groups with 450 manufacturing employees or more. Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry group and geographic area	1987										1982			
		All establishments ²		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materials ⁴ (million dollars)	Value of shipments ⁴ (million dollars)	New capital expendi- tures (million dollars)	All em- ployees ³ (1,000)	Value added by manu- facture (million dollars)	
		E ¹	Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							Wages (million dollars)
20	Food and kindred products—Con.														
202	Dairy products—Con.														
	New Jersey	E3	68	27	3.1	84.5	2.1	4.0	49.1	287.8	775.1	1 062.8	26.5	2.6	185.1
	New Mexico	-	8	4	.5	10.4	.2	.5	4.3	31.5	54.3	85.9	(D)	.4	20.4
	New York	E1	175	85	8.7	198.0	5.5	11.0	112.4	593.6	2 004.4	2 592.1	67.0	8.7	457.7
	North Carolina	-	32	22	2.7	48.2	1.5	2.8	22.3	146.4	422.3	567.3	9.7	3.1	131.0
	North Dakota	-	18	10	.6	12.2	.3	.7	6.2	28.8	130.7	159.2	1.3	CC	(D)
	Ohio	E1	99	62	7.3	169.4	4.2	8.6	84.3	629.4	1 414.1	2 040.1	62.7	12.4	551.8
	Oklahoma	-	18	12	1.2	27.0	.6	1.3	11.9	78.9	221.4	298.8	3.3	1.3	60.9
	Oregon	-	30	19	1.5	34.4	.8	1.5	17.7	109.2	321.0	429.3	4.8	1.6	68.7
	Pennsylvania	E1	146	67	7.9	179.6	4.6	8.8	97.5	596.6	1 594.4	2 187.1	37.3	8.0	385.1
	South Carolina	-	15	10	1.0	18.8	.6	1.3	10.6	85.4	199.8	284.4	4.8	1.0	77.2
	South Dakota	-	29	12	1.0	19.3	.6	1.3	11.2	61.0	239.3	293.0	2.7	1.0	50.7
	Tennessee	-	26	19	2.4	53.4	1.4	2.9	24.2	171.7	399.5	575.1	(D)	2.9	175.7
	Texas	-	84	58	6.7	140.6	3.2	7.0	60.8	452.9	1 171.8	1 622.0	30.6	6.7	379.1
	Utah	-	32	18	2.0	32.4	1.3	2.2	20.0	140.9	423.9	565.2	7.3	2.2	85.6
	Vermont	E1	31	17	1.6	32.6	1.0	2.1	18.2	83.6	331.5	414.8	11.7	1.2	56.1
	Virginia	-	26	20	2.4	57.6	1.3	2.5	27.4	391.5	463.3	855.4	23.7	2.3	250.8
	Washington	-	34	19	1.6	48.8	1.0	2.0	28.6	144.8	649.9	794.3	4.3	1.8	140.4
	West Virginia	-	10	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8	21.2
	Wisconsin	-	361	174	16.3	335.8	12.8	25.6	242.7	1 385.6	5 330.8	6 700.2	78.0	15.5	1 027.0
203	Preserved fruits and vegetables	-	1 918	1 108	208.5	3 784.3	172.9	327.3	2 774.4	17 364.3	19 117.3	36 342.8	1 025.4	(NA)	(NA)
	Alabama	-	7	5	.6	10.9	.5	1.0	8.8	50.4	103.5	153.9	4.1	(NA)	(NA)
	Arizona	E2	15	6	.6	8.4	.5	.9	6.0	50.2	48.0	98.2	1.8	(NA)	(NA)
	Arkansas	-	21	15	3.6	53.8	3.2	6.7	43.8	217.0	340.4	558.6	17.5	(NA)	(NA)
	California	-	391	240	46.1	881.9	39.2	73.0	673.1	3 956.8	3 975.0	7 904.8	180.0	(NA)	(NA)
	Colorado	E1	21	6	.8	10.4	.7	1.1	7.6	36.0	43.9	79.6	(D)	(NA)	(NA)
	Connecticut	-	17	10	1.0	20.2	.8	1.5	12.7	89.4	101.2	190.3	(D)	(NA)	(NA)
	Delaware	-	10	7	1.6	20.5	1.3	2.4	12.1	77.4	77.7	155.0	4.0	(NA)	(NA)
	Florida	-	79	40	9.1	175.9	6.9	14.7	115.5	1 074.1	2 097.8	3 115.7	78.3	(NA)	(NA)
	Georgia	-	23	15	4.3	75.0	3.6	6.9	59.2	338.8	389.9	728.9	13.8	(NA)	(NA)
	Hawaii	E1	32	7	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Idaho	-	29	25	9.4	140.3	8.2	13.4	105.0	494.0	449.8	946.3	22.4	(NA)	(NA)
	Illinois	-	100	58	6.9	141.3	5.2	10.2	92.4	661.6	765.2	1 427.4	40.3	(NA)	(NA)
	Indiana	-	33	18	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Iowa	-	13	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Kansas	-	6	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Kentucky	-	9	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Louisiana	-	22	13	1.0	16.1	.8	1.7	10.7	89.2	83.9	173.1	3.6	(NA)	(NA)
	Maine	-	21	12	1.7	23.8	1.4	2.6	18.6	97.2	109.0	204.6	4.5	(NA)	(NA)
	Maryland	-	36	15	2.6	48.6	2.1	3.9	33.6	135.2	220.6	355.8	(D)	(NA)	(NA)
	Massachusetts	E1	34	11	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Michigan	-	90	56	6.6	119.0	5.3	10.4	82.3	511.4	590.9	1 102.9	(D)	(NA)	(NA)
	Minnesota	-	43	30	5.8	89.4	4.8	8.9	60.8	355.8	343.7	699.4	21.2	(NA)	(NA)
	Missouri	-	34	14	3.0	54.9	2.4	4.9	40.7	291.2	311.3	602.3	17.1	(NA)	(NA)
	Nebraska	-	7	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	New Jersey	-	57	38	6.3	157.5	5.0	10.1	114.1	842.8	765.7	1 606.6	145.7	(NA)	(NA)
	New York	-	127	74	9.9	193.6	7.1	14.4	113.3	970.0	950.5	1 893.7	50.0	(NA)	(NA)
	North Carolina	-	24	14	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	North Dakota	-	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Ohio	-	71	37	9.6	198.4	7.5	14.1	147.4	1 203.2	1 048.2	2 255.7	49.3	(NA)	(NA)
	Oklahoma	-	17	6	1.2	21.1	1.0	1.8	14.3	85.8	72.9	158.6	2.3	(NA)	(NA)
	Oregon	-	73	43	10.4	158.3	8.9	15.3	117.8	543.5	557.9	1 076.5	26.1	(NA)	(NA)
	Pennsylvania	-	71	49	11.0	216.4	9.0	16.6	165.8	1 092.0	1 178.2	2 268.2	53.9	(NA)	(NA)
	South Carolina	-	17	10	3.9	66.5	3.5	6.7	55.1	323.0	350.6	673.7	7.3	(NA)	(NA)
	Tennessee	-	27	13	2.7	45.9	2.1	3.9	28.9	227.1	187.1	414.1	(D)	(NA)	(NA)
	Texas	-	77	43	8.3	141.0	6.9	13.2	102.6	705.3	698.0	1 402.7	36.4	(NA)	(NA)
	Utah	-	10	3	.7	10.4	.6	1.2	8.0	45.7	58.0	103.7	(D)	(NA)	(NA)
	Virginia	-	22	13	2.6	34.0	2.1	4.3	24.6	82.0	124.4	205.6	5.3	(NA)	(NA)
	Washington	-	84	52	10.1	165.3	9.0	15.9	132.0	614.4	711.3	1 315.3	21.1	(NA)	(NA)
	Wisconsin	-	99	74	9.9	170.1	8.5	16.7	126.9	747.5	762.5	1 513.7	66.9	(NA)	(NA)
204	Grain mill products	-	2 607	1 012	102.4	2 703.6	69.8	147.8	1 727.7	15 408.6	21 348.0	36 737.0	1 071.6	107.5	10 333.1
	Alabama	-	50	22	1.6	34.5	1.1	2.4	21.8	98.5	352.5	450.4	7.5	1.8	82.9
	Arkansas	-	70	29	2.9	47.5	2.2	4.7	31.8	182.3	677.2	820.8	17.3	3.0	185.0
	California	E1	183	81	7.7	220.7	5.2	11.1	141.1	1 126.0	1 508.1	2 661.0	78.9	7.5	655.4
	Colorado	E1	49	18	1.6	39.6	1.0	2.0	25.0	259.3	318.1	576.6	13.9	1.2	133.9
	Florida	E2	43	16	1.0	19.4	.6	1.3	11.1	64.4	261.7	325.8	5.0	.9	48.7
	Georgia	E1	77	34	2.7	57.8	1.8	3.8	30.5	372.5	762.8	1 131.5	14.4	2.6	189.7
	Illinois	-	135	62	10.5	311.3	7.2	15.1	202.0	1 884.5	2 214.2	4 123.2	168.6	11.4	1 307.6
	Indiana	-	70	35	4.0	118.9	2.7	6.0	76.0	627.7	738.6	1 372.8	57.0	4.0	372.4
	Iowa	-	158	65	8.8	261.8	5.5	11.3	157.7	1 863.6	2 080.6	3 941.2	120.2	10.9	1 336.7
	Kansas	-	89	38	3.4	87.5	2.3	4.7	51.6	396.1	673.8	1 062.9	(D)	FF	(D)
	Kentucky	E2	46	13	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	Louisiana	-	34	20	1.0	14.8	.8	1.6	10.4	77.3	194.3	266.2	(D)	1.3	70.2
	Maryland	E1	25	8	.6	12.5	.5	1.0	8.7	28.4	172.9	208.6	(D)	.8	76.5
	Massachusetts	-	17	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	22.6
	Michigan	-	45	18	5.1	205.6	4.0	9.6	162.3	1 198.8	528.8	1 722.0	(D)	5.7	772.0
	Minnesota	-	108	37	3.0	72.7	2.1	4.2	48.3	336.6	634.7	966.3	(D)	3.4	271.0
	Mississippi	-	44	14	1.4	28.5	1.1	2.2	19.1	225.1	294.6	499.9	(D)	1.6	78.2
	Missouri	-	90	38	4.0	95.8	2.8	5.5	61.1	516.8	1 293.7	1 293.7	39.4	4.2	395.0
	Nebraska	-	94	32	3.2	88.0	2.3	4.9	61.0	649.8	594.8	1 245.1	16.5	3.7	465.0
	New Jersey	E5	25	14	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	35.1

See footnotes at end of table.

Table 2. Industry Group Statistics by State: 1987 and 1982—Con.

[Includes industry groups with 450 manufacturing employees or more. Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry group and geographic area	1987											1982		
		All establishments ²		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materials ⁴ (million dollars)	Value of shipments ⁴ (million dollars)	New capital expend- itures (million dollars)	All em- ployees ³ (1,000)	Value added by manu- facture (million dollars)	
		Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)							
		E ¹													
20	Food and kindred products—Con.														
204	Grain mill products— Con.														
	New York	—	91	38	3.7	105.8	2.6	5.4	73.5	701.7	787.5	1 486.1	28.5	4.4	573.6
	North Carolina	E1	112	41	2.5	48.7	1.5	3.3	27.0	195.0	741.2	935.8	14.9	2.7	154.4
	Ohio	—	89	36	4.3	130.1	3.1	6.5	89.5	953.9	831.1	1 790.5	56.1	4.1	621.6
	Oklahoma	—	44	17	1.3	28.6	.8	1.7	17.4	205.7	313.8	520.8	5.0	1.5	135.8
	Oregon	E2	42	15	.8	19.0	.5	1.1	10.3	92.2	189.0	280.7	3.2	.9	64.7
	Pennsylvania	E1	132	33	4.8	134.6	3.0	6.1	78.3	912.3	868.1	1 776.9	47.4	4.8	464.9
	South Carolina	—	25	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	19.7
	Tennessee	—	65	32	4.8	130.6	3.3	6.8	86.1	827.9	1 171.4	1 999.5	65.8	3.7	431.0
	Texas	E1	156	64	5.9	118.5	4.1	9.0	71.7	500.6	1 122.2	1 616.1	37.7	7.6	436.1
	Utah	E1	30	12	.9	19.9	.6	1.3	12.5	72.7	167.0	240.2	4.7	.6	40.7
	Virginia	—	49	14	1.0	20.2	.7	1.4	12.4	83.8	242.1	325.7	(D)	.9	39.1
	Washington	E2	60	20	1.4	38.4	.9	2.2	22.8	132.2	311.2	442.2	10.4	1.2	65.7
	Wisconsin	E1	102	24	2.5	57.7	1.5	3.1	31.4	258.6	454.5	708.7	8.2	2.2	170.3
205	Bakery products	—	2 850	1 287	217.0	4 760.7	127.9	248.9	2 547.1	15 213.3	8 497.9	23 677.3	735.9	(NA)	(NA)
	Alabama	—	22	15	3.6	80.7	2.1	4.7	37.8	242.3	146.8	389.0	(D)	(NA)	(NA)
	Arizona	—	33	14	1.5	32.3	.9	1.7	18.4	76.9	60.3	137.3	(D)	(NA)	(NA)
	Arkansas	—	19	15	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	California	—	370	156	22.9	573.9	13.0	24.3	290.3	1 561.4	828.8	2 386.1	75.5	(NA)	(NA)
	Colorado	—	48	17	2.8	64.4	1.9	3.6	43.6	237.7	98.4	337.3	8.1	(NA)	(NA)
	Connecticut	—	47	18	3.9	96.9	2.3	4.5	56.1	328.1	159.8	488.2	11.0	(NA)	(NA)
	District of Columbia	—	9	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Florida	—	140	48	6.8	143.8	3.6	7.1	62.9	371.6	217.8	588.7	15.5	(NA)	(NA)
	Georgia	—	57	38	10.0	225.6	5.8	11.1	122.4	707.7	444.6	1 148.6	38.1	(NA)	(NA)
	Hawaii	E1	34	10	.7	12.5	.4	.7	6.3	25.9	19.3	45.1	1.5	(NA)	(NA)
	Illinois	—	139	76	14.9	360.2	10.2	20.7	232.9	1 682.7	676.5	2 353.8	46.9	(NA)	(NA)
	Indiana	—	39	25	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Iowa	—	26	16	2.8	52.9	1.9	3.3	31.4	175.8	126.8	302.4	7.5	(NA)	(NA)
	Kansas	—	20	12	2.9	65.9	1.4	2.6	31.4	242.9	98.0	342.5	6.2	(NA)	(NA)
	Kentucky	—	16	10	3.0	64.9	1.7	3.2	33.5	183.1	146.6	321.3	13.9	(NA)	(NA)
	Louisiana	—	29	20	3.8	66.0	1.6	3.1	23.1	163.2	89.0	252.1	(D)	(NA)	(NA)
	Maine	E2	19	5	1.7	32.4	.9	1.7	15.2	103.4	59.4	162.8	(D)	(NA)	(NA)
	Maryland	—	50	19	2.7	55.8	1.7	3.8	33.7	227.1	113.5	340.6	(D)	(NA)	(NA)
	Massachusetts	E1	110	48	5.1	94.5	2.8	5.3	45.0	255.5	149.7	404.9	12.3	(NA)	(NA)
	Michigan	—	85	42	7.3	165.1	4.9	9.6	101.6	475.8	373.1	849.8	(D)	(NA)	(NA)
	Minnesota	—	42	27	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Mississippi	—	9	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Missouri	—	54	26	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Nebraska	—	18	11	1.8	35.3	.9	1.7	15.3	95.7	51.7	147.1	1.8	(NA)	(NA)
	New Jersey	E1	123	52	8.2	197.2	5.7	12.7	123.8	691.2	331.3	1 018.4	29.9	(NA)	(NA)
	New Mexico	E2	13	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	New York	E1	365	100	14.0	309.0	8.2	16.0	159.3	912.8	485.5	1 396.5	36.0	(NA)	(NA)
	North Carolina	—	53	36	11.1	218.9	4.8	10.2	80.1	542.6	325.7	865.4	66.2	(NA)	(NA)
	North Dakota	—	8	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Ohio	—	101	47	9.2	209.7	6.5	12.4	136.5	846.9	456.4	1 303.1	35.7	(NA)	(NA)
	Oklahoma	—	22	13	2.1	46.0	1.3	2.6	26.3	141.3	103.2	246.0	24.8	(NA)	(NA)
	Oregon	—	50	22	2.7	62.7	1.8	3.2	39.5	264.1	130.8	394.2	6.5	(NA)	(NA)
	Pennsylvania	—	210	113	15.3	332.2	9.9	19.1	203.4	1 181.4	614.6	1 791.3	41.8	(NA)	(NA)
	Rhode Island	E1	23	8	.7	17.2	.3	.6	5.5	44.1	31.1	75.5	1.5	(NA)	(NA)
	South Carolina	—	14	10	2.2	44.0	1.2	2.7	23.0	236.2	119.0	355.3	3.8	(NA)	(NA)
	South Dakota	—	7	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Tennessee	—	40	30	8.3	170.4	4.1	7.5	70.5	516.3	361.6	878.1	66.4	(NA)	(NA)
	Texas	—	146	71	12.4	262.2	6.8	13.4	128.5	743.9	438.3	1 178.7	33.8	(NA)	(NA)
	Utah	—	22	9	1.7	29.0	1.3	2.3	19.2	130.7	77.1	209.3	4.5	(NA)	(NA)
	Virginia	—	37	21	4.3	90.5	2.5	4.7	49.9	259.3	202.1	462.3	8.6	(NA)	(NA)
	Washington	—	57	18	3.0	69.1	1.9	3.2	34.7	191.4	105.7	297.4	9.0	(NA)	(NA)
	West Virginia	—	11	6	1.0	25.1	.5	1.0	10.7	74.9	32.2	107.1	2.2	(NA)	(NA)
	Wisconsin	—	47	29	3.3	57.6	2.4	4.5	36.5	152.0	115.0	266.8	10.2	(NA)	(NA)
206	Sugar and confectionery products	—	1 075	519	90.3	1 991.3	72.3	140.4	1 421.8	8 466.3	10 553.3	18 887.0	480.6	95.7	6 234.0
	Alabama	—	9	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	33.8
	Arkansas	—	5	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
	California	—	131	64	11.9	259.3	9.6	18.3	190.5	1 268.9	1 408.5	2 660.9	49.1	12.9	770.4
	Colorado	—	17	7	1.0	18.0	.8	1.5	12.4	44.4	61.8	105.2	(D)	1.4	54.0
	Connecticut	—	13	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	59.1
	Florida	—	33	13	2.5	71.9	2.0	4.6	54.0	281.7	517.9	749.7	12.1	2.6	127.7
	Georgia	—	32	18	2.8	62.7	2.3	4.7	47.5	244.1	581.5	830.3	18.3	3.5	211.5
	Hawaii	—	29	20	2.9	59.1	2.2	4.7	40.9	242.9	238.9	485.6	28.4	3.6	159.7
	Idaho	—	5	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Illinois	—	81	46	14.0	327.5	11.6	22.3	247.7	1 562.0	1 117.0	2 667.4	82.5	14.3	1 161.8
	Indiana	E1	14	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	75.2
	Louisiana	—	43	30	3.2	71.0	2.5	5.4	53.7	156.9	711.0	859.0	8.8	4.0	176.8
	Maryland	—	12	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Massachusetts	—	41	21	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.4	149.5
	Michigan	—	33	13	2.0	44.6	1.5	3.0	31.5	166.8	174.7	336.2	(D)	1.9	132.1
	Minnesota	—	23	16	2.7	59.7	2.1	4.3	42.3	196.1	386.9	582.7	15.5	3.5	142.0
	Missouri	—	18	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	61.0
	Nebraska	—	5	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	New Jersey	—	46	21	2.6	75.0	2.0	3.8	46.6	378.6	504.2	881.3	28.8	2.5	280.6
	New York	—	86	32	5.3	128.6	4.0	7.7	88.5	471.5	670.0	1 138.6	28.6	5.1	466.2

See footnotes at end of table.

Table 2. Industry Group Statistics by State: 1987 and 1982—Con.

[Includes industry groups with 450 manufacturing employees or more. Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry group and geographic area	1987											1982	
		All establishments ²		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materials ⁴ (million dollars)	Value of shipments ⁴ (million dollars)	New capital expend- itures (million dollars)	All em- ployees ³ (1,000)	Value added by manu- facture (million dollars)
		E ¹	Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
20	Food and kindred products—Con.													
206	Sugar and confectionery products—Con.													
	North Carolina	-	19	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	18.6
	North Dakota	-	8	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Ohio	-	48	22	2.0	33.0	1.5	2.7	21.9	119.7	126.3	239.6	(D)	95.3
	Oklahoma	-	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	9.0
	Oregon	-	17	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	Pennsylvania	-	117	62	13.8	303.1	11.3	20.3	213.5	1 306.7	1 222.2	2 512.0	66.0	927.9
	South Carolina	-	4	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
	Tennessee	-	12	7	2.3	49.1	1.9	3.7	34.7	227.7	237.4	456.7	32.6	96.9
	Texas	-	40	20	3.3	71.4	2.6	5.1	50.3	407.7	526.3	937.2	30.8	250.9
	Virginia	E1	20	11	1.3	20.3	1.0	1.9	14.1	58.3	99.5	151.1	(D)	131.6
	Washington	E1	20	6	.7	11.7	.5	.8	7.1	39.5	25.5	64.9	(D)	.6
	Wisconsin	-	22	13	2.0	43.7	1.5	2.7	25.8	279.2	257.7	532.6	8.1	187.3
	Wyoming	-	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
207	Fats and oils	-	586	356	29.6	701.6	19.8	41.3	428.5	3 210.3	12 738.5	15 880.5	251.1	38.7
	Alabama	-	13	7	.6	13.0	.4	.9	7.0	74.7	337.2	408.0	3.7	41.7
	Arkansas	-	14	13	1.1	19.7	.8	1.7	12.8	58.2	503.6	566.4	11.0	62.5
	California	-	62	32	2.3	61.8	1.5	3.0	36.1	319.5	531.9	847.2	14.8	303.5
	Florida	E1	16	8	.5	8.7	.3	.5	3.9	40.4	56.9	97.0	2.3	23.2
	Georgia	-	19	14	1.1	23.7	.7	1.5	14.8	124.8	468.0	601.5	13.9	155.7
	Illinois	-	41	28	3.8	105.0	2.7	5.8	69.7	471.9	2 536.8	2 989.5	28.9	550.2
	Indiana	-	16	14	1.1	29.3	.7	1.4	16.7	185.7	558.2	728.8	10.8	7.5
	Iowa	-	28	19	1.2	26.2	.8	1.8	17.8	137.6	1 217.5	1 354.3	(D)	130.0
	Kansas	-	15	9	.6	11.8	.3	.7	6.7	58.9	381.8	439.5	(D)	39.2
	Louisiana	-	13	11	.7	14.7	.6	1.2	9.9	67.6	221.8	289.2	3.4	59.3
	Michigan	-	10	6	.5	12.7	.4	.8	8.3	72.8	69.6	142.1	(D)	.7
	Minnesota	-	18	13	.9	20.2	.7	1.3	13.9	99.2	700.8	807.0	28.0	81.7
	Mississippi	-	20	17	.9	16.0	.7	1.5	9.7	67.9	315.1	373.1	4.9	51.4
	Missouri	-	16	11	.7	16.2	.5	1.1	9.9	93.9	455.3	548.0	8.1	32.4
	Nebraska	-	15	8	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	33.6
	New Jersey	-	12	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	46.7
	North Carolina	-	21	13	1.2	23.0	1.0	1.9	16.9	74.2	480.5	552.1	(D)	62.1
	Ohio	-	22	14	1.7	52.2	1.0	2.2	33.2	222.6	661.1	884.0	(D)	206.0
	Pennsylvania	-	14	6	.5	10.2	.2	.5	3.4	27.2	47.8	75.3	2.3	44.5
	South Carolina	-	9	8	.5	9.7	.4	.8	6.5	44.6	196.0	251.2	2.9	28.7
	Tennessee	-	18	13	1.5	43.6	1.1	2.4	27.2	192.5	736.8	923.2	18.6	172.6
	Texas	-	49	26	2.5	53.6	1.8	3.8	33.4	219.1	432.7	650.4	20.6	226.0
	Virginia	-	13	8	.8	15.6	.5	.8	8.3	54.9	202.3	254.2	6.3	38.1
208	Beverages	-	2 211	1 133	160.9	4 520.7	77.8	154.3	2 138.3	22 584.8	24 867.2	47 327.2	1 253.1	194.1
	Alabama	E2	18	12	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.3
	Arizona	-	21	12	1.9	46.0	.5	1.0	9.4	138.2	235.9	373.5	11.4	107.4
	Arkansas	-	17	14	1.6	35.8	.5	.9	8.8	288.4	357.1	606.0	10.8	105.8
	California	-	464	180	23.9	705.4	12.2	23.9	344.6	3 701.5	4 030.5	7 669.1	168.0	2 309.0
	Colorado	-	23	15	5.2	254.7	2.4	5.6	108.6	728.1	712.0	1 447.2	(D)	384.9
	Connecticut	E1	23	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1
	Florida	E1	68	44	7.3	203.6	3.0	6.2	87.1	1 045.0	1 041.4	2 084.6	75.0	667.3
	Georgia	-	37	27	3.8	109.9	1.8	3.7	53.3	796.0	790.8	1 576.6	19.8	510.4
	Hawaii	-	15	5	.6	13.6	.2	.4	4.1	50.0	80.4	130.3	3.7	26.9
	Illinois	-	76	46	5.0	141.1	2.7	5.6	64.8	859.5	838.6	1 696.5	38.1	762.2
	Indiana	-	48	32	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5.8
	Iowa	-	28	17	1.6	34.9	.5	1.0	8.8	125.3	155.7	279.5	7.5	76.4
	Kansas	E1	20	14	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.0
	Kentucky	-	53	39	4.8	114.1	2.6	5.0	57.6	714.4	541.1	1 170.4	24.2	667.6
	Louisiana	E1	28	19	2.6	57.3	.7	1.3	11.5	181.9	237.9	423.5	9.8	227.3
	Maryland	-	34	22	3.4	100.9	1.9	4.0	50.6	656.8	601.2	1 285.7	24.9	432.6
	Massachusetts	E1	55	24	2.4	60.2	1.4	2.8	33.5	217.6	455.3	671.2	15.5	181.3
	Michigan	-	53	26	3.5	88.8	2.3	4.6	53.1	402.0	525.6	913.6	(D)	379.4
	Minnesota	-	40	22	2.9	79.0	1.6	2.6	39.4	384.1	548.7	932.0	15.7	344.5
	Mississippi	E5	21	16	1.7	31.7	.6	1.2	10.4	109.8	183.4	291.1	5.5	94.9
	Missouri	-	60	31	6.6	210.4	3.9	7.7	127.6	1 036.4	825.0	1 864.4	86.2	658.6
	Nebraska	E1	13	10	.8	16.4	.2	.3	3.3	53.0	84.2	136.7	4.8	63.4
	New Hampshire	-	9	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9
	New Jersey	-	70	29	4.0	127.5	2.7	5.1	82.5	872.6	739.4	1 615.6	81.0	703.3
	New York	E1	137	55	10.0	307.0	5.2	10.6	155.9	1 402.5	1 702.5	3 156.0	69.4	1 118.8
	North Carolina	E1	60	36	5.2	140.3	2.1	4.1	62.6	543.9	776.8	1 323.9	23.1	545.0
	Ohio	-	78	44	8.1	220.7	3.6	7.2	102.0	1 116.9	1 096.0	2 209.5	57.8	864.4
	Oklahoma	-	26	12	1.9	39.3	.6	1.2	8.7	135.3	206.3	340.3	10.8	91.2
	Oregon	E1	39	16	1.2	27.3	.5	.9	11.0	121.4	160.8	281.5	2.9	126.9
	Pennsylvania	E1	115	54	6.7	170.6	3.1	5.6	73.8	540.9	892.4	1 431.5	31.1	553.5
	South Carolina	-	18	15	1.5	30.8	.6	1.2	10.1	109.4	292.7	402.8	6.3	122.3
	Tennessee	-	41	25	4.8	114.3	2.1	4.3	49.9	598.1	654.3	1 258.4	(D)	450.7
	Texas	-	110	64	12.4	335.5	5.3	10.9	152.1	2 217.6	1 909.1	4 123.5	77.0	1 404.8
	Utah	-	13	10	.9	18.4	.3	.7	5.1	123.5	110.3	231.6	10.2	34.0
	Virginia	-	43	26	3.3	93.9	1.7	3.5	51.6	694.2	659.8	1 358.1	23.7	426.2

See footnotes at end of table.

Table 2. Industry Group Statistics by State: 1987 and 1982—Con.

[Includes industry groups with 450 manufacturing employees or more. Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes.]

1987 SIC code	Industry group and geographic area	1987											1982		
		All establishments ²		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materials ⁴ (million dollars)	Value of shipments ⁴ (million dollars)	New capital expend- itures (million dollars)	All em- ployees ³ (1,000)	Value added by manu- facture (million dollars)	
		E ¹	Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							Wages (million dollars)
20	Food and kindred products—Con.														
208	Beverages—Con.														
	Washington	—	58	24	2.7	76.2	1.4	2.7	38.5	436.8	494.0	927.0	22.0	3.2	200.3
	West Virginia	E3	15	8	.7	14.5	.2	.4	3.8	32.3	68.7	100.7	2.4	1.3	66.7
	Wisconsin	—	72	34	5.2	167.2	3.4	6.5	110.3	788.2	977.3	1 765.0	32.0	8.9	664.3
209	Miscellaneous food and kindred products	—	3 730	1 451	158.0	2 887.1	116.5	213.0	1 784.8	13 666.2	15 466.0	29 116.4	749.5	158.0	10 017.2
	Alabama	—	55	21	4.0	60.9	2.8	5.0	28.0	128.6	299.3	422.8	8.9	2.7	80.0
	Alaska	—	87	50	4.8	77.5	4.1	7.7	63.3	248.5	622.3	871.8	32.9	5.1	168.0
	Arizona	E2	43	13	1.1	14.7	.8	1.5	9.6	44.2	34.6	78.7	2.5	CC	(D)
	Arkansas	—	25	7	.9	16.2	.8	1.7	12.0	98.8	154.6	251.4	3.3	CC	(D)
	California	E1	507	213	21.7	396.8	16.4	30.3	253.4	1 775.8	1 994.0	3 764.7	82.4	26.8	1 819.6
	Colorado	E1	54	16	1.5	26.7	1.0	1.6	13.5	104.3	67.6	172.7	(D)	1.6	77.8
	Connecticut	E1	27	6	1.3	24.8	1.0	1.4	16.6	127.6	69.1	196.4	(D)	BB	(D)
	Delaware	—	7	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Florida	—	178	56	8.0	121.3	6.5	12.3	83.0	833.8	969.4	1 811.4	25.0	8.6	586.0
	Georgia	—	71	36	5.0	75.9	3.8	6.9	44.4	333.6	469.9	804.0	15.3	3.8	217.3
	Hawaii	E3	76	16	1.3	19.1	.8	1.3	9.1	55.5	72.1	126.2	3.4	1.4	33.9
	Idaho	—	19	6	1.0	21.2	.8	1.6	13.7	81.6	46.1	126.9	(D)	BB	(D)
	Illinois	—	155	62	6.5	134.3	4.3	8.7	73.4	524.2	576.9	1 100.3	29.8	7.7	599.4
	Indiana	—	59	25	4.6	95.3	3.7	6.7	71.0	647.4	375.2	1 032.0	48.4	2.2	177.1
	Iowa	—	34	12	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Kansas	E1	36	14	1.7	30.4	1.3	2.1	19.1	219.3	136.8	353.6	(D)	EE	(D)
	Kentucky	—	30	12	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.6	129.0
	Louisiana	—	139	46	3.3	51.7	2.6	4.5	35.4	450.6	730.0	1 191.0	22.8	3.6	260.5
	Maine	E1	42	17	1.7	23.4	1.4	2.3	16.7	44.5	91.2	136.3	5.3	2.0	48.7
	Maryland	—	81	33	4.1	91.1	2.8	4.6	47.9	392.0	460.0	841.7	22.4	3.7	200.5
	Massachusetts	—	124	53	5.4	118.4	3.8	7.3	73.7	435.7	984.6	1 420.7	14.3	6.3	231.2
	Michigan	E2	96	27	2.5	49.7	1.8	3.2	28.7	211.3	168.7	382.1	(D)	2.5	141.6
	Minnesota	—	61	25	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.9	104.8
	Mississippi	—	46	21	5.2	59.2	4.4	8.0	42.7	202.8	355.4	559.2	20.1	2.6	136.7
	Missouri	—	51	19	2.0	45.4	1.3	2.5	28.4	215.9	381.5	596.7	19.4	2.8	239.1
	Nebraska	—	22	12	.9	16.9	.6	1.1	9.6	84.9	82.4	167.0	3.0	.7	69.1
	New Jersey	—	115	54	6.0	145.5	4.3	8.6	89.9	701.5	890.2	1 600.2	46.3	6.4	694.5
	New Mexico	E1	24	10	.5	5.4	.4	.8	3.5	33.9	20.3	52.2	.9	.5	11.7
	New York	E2	208	66	6.3	124.1	4.6	8.5	75.3	518.5	579.5	1 099.6	29.1	6.4	376.4
	North Carolina	—	93	46	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.4	187.4
	Ohio	—	107	39	3.9	77.2	2.4	4.4	37.5	351.7	377.9	727.0	(D)	4.2	316.8
	Oklahoma	—	32	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	37.5
	Oregon	E2	62	20	2.7	44.0	1.9	3.4	25.0	137.4	222.7	359.6	3.7	2.3	81.6
	Pennsylvania	—	134	60	8.9	169.6	6.0	11.4	97.5	767.5	760.9	1 526.7	38.8	7.8	483.8
	Rhode Island	E4	27	8	.5	8.9	.4	.6	4.3	28.9	39.7	69.1	2.4	.7	21.0
	South Carolina	—	24	11	.8	13.0	.6	1.0	7.4	63.4	77.0	141.7	2.3	CC	(D)
	Tennessee	—	50	17	2.6	51.4	1.7	3.6	30.7	250.3	216.3	465.6	(D)	2.6	180.7
	Texas	—	294	107	10.2	184.9	7.8	13.7	123.5	1 165.5	879.8	2 041.5	68.0	12.3	780.1
	Utah	E1	14	7	.5	7.1	.3	.6	3.9	40.7	31.0	71.3	(D)	.6	17.4
	Virginia	E1	113	54	5.0	71.9	3.5	5.7	39.3	402.0	383.3	783.6	9.3	6.3	392.5
	Washington	E1	159	84	6.7	117.8	5.4	9.6	81.4	417.6	620.8	1 029.4	22.7	6.2	272.0
	Wisconsin	—	63	21	2.2	46.5	1.7	2.8	30.9	249.8	164.2	413.6	(D)	2.1	166.1
21	Tobacco products ..	—	137	83	44.7	1 485.6	32.7	61.3	1 010.5	14 263.8	6 490.7	20 757.1	464.3	57.9	8 964.8
	Alabama	—	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	15.3
	Florida	E1	35	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.7	27.0
	Georgia	—	4	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Kentucky	—	12	9	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	7.3	1 136.2
	North Carolina	—	20	19	19.1	615.0	15.2	27.1	461.0	7 160.5	3 305.4	10 465.1	(D)	23.1	4 234.6
	Pennsylvania	E1	11	9	.8	13.3	.6	1.3	9.4	34.8	80.0	115.7	1.4	2.4	83.9
	Tennessee	—	8	8	1.3	25.4	1.0	1.9	14.1	314.9	187.3	498.0	(D)	1.3	203.8
	Virginia	—	13	12	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	17.6	2 489.1
211	Cigarettes	—	12	12	32.0	1 233.7	23.6	42.9	860.3	12 970.7	4 396.6	17 372.0	410.2	41.5	8 098.3
	Georgia	—	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Kentucky	—	1	1	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	North Carolina	—	6	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	18.6	4 079.3
	Virginia	—	2	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
212	Cigars	E1	20	18	2.5	35.7	2.0	4.0	26.2	106.3	85.5	191.5	5.0	5.1	133.3
	Alabama	—	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	15.3
	Florida	—	7	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.6	26.2
213	Chewing and smoking tobacco	—	29	19	3.3	77.2	2.2	4.3	46.2	791.9	321.5	1 114.3	8.9	3.1	420.5
	Kentucky	—	5	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	Tennessee	—	5	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
214	Tobacco stemming and redrying	—	76	34	6.9	139.0	4.8	10.2	77.7	394.9	1 687.0	2 079.2	40.2	8.3	312.6
	Florida	E1	24	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	North Carolina	—	12	11	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	Tennessee	—	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	Virginia	—	8	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)

See footnotes at end of table.

Table 2. Industry Group Statistics by State: 1987 and 1982—Con.

[Includes industry groups with 450 manufacturing employees or more. Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes.]

1987 SIC code	Industry group and geographic area	1987											1982		
		All establishments ²		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materials ⁴ (million dollars)	Value of shipments ⁴ (million dollars)	New capital expend- itures (million dollars)	All em- ployees ³ (1,000)	Value added by manu- facture (million dollars)	
		Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)							
E1															
22	Textile mill products	-	6 065	3 413	672.0	11 409.6	575.1	1 175.6	8 728.4	25 660.1	37 565.5	62 786.4	2 027.7	717.4	18 550.2
	Alabama	-	220	139	33.4	545.8	29.5	60.3	444.9	1 452.3	1 714.3	3 162.9	117.0	31.6	837.4
	Arkansas	-	16	6	1.9	35.9	1.6	3.3	27.2	106.1	123.6	226.9	6.5	3.5	120.3
	California	E1	420	155	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	Connecticut	E1	75	39	4.6	86.5	3.6	7.1	59.9	183.5	158.2	339.3	6.8	7.5	216.2
	Florida	E5	136	41	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.0	62.7
	Georgia	-	570	382	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	91.6	2 811.3
	Illinois	-	78	32	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Indiana	-	30	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	Iowa	-	10	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8	30.1
	Kentucky	-	33	18	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6.8	139.9
	Louisiana	-	11	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Maine	-	62	34	6.3	102.0	5.4	11.0	76.3	200.3	265.0	463.5	11.5	8.2	216.3
	Maryland	E1	26	11	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	53.7
	Massachusetts	E1	213	121	17.0	331.0	13.2	27.2	213.2	643.7	727.5	1 357.1	44.2	20.9	621.0
	Michigan	E1	46	12	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Minnesota	E1	30	14	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.0	58.6
	Mississippi	-	39	25	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6.3	152.5
	Missouri	E5	30	7	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	28.2
	New Hampshire	E1	57	32	4.0	73.4	3.3	6.5	50.2	172.8	149.8	320.9	15.7	3.7	113.4
	New Jersey	E2	378	178	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	17.0	462.7
	New Mexico	-	10	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	New York	E3	834	336	25.9	423.3	22.0	43.1	303.8	844.7	971.1	1 810.6	50.6	28.7	791.4
	North Carolina	-	1 185	882	205.4	3 238.4	181.0	370.6	2 612.5	6 957.5	10 400.5	17 308.4	602.3	219.4	4 979.6
	Ohio	E1	86	36	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.9	165.1
	Oklahoma	-	9	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	Oregon	E1	28	9	.8	11.2	.7	1.2	8.1	29.2	29.5	56.0	1.6	CC	(D)
	Pennsylvania	E1	361	214	28.2	465.8	23.1	45.3	336.1	1 047.6	1 219.5	2 238.6	66.9	40.0	987.1
	Rhode Island	-	133	78	8.6	155.6	7.1	14.5	110.3	302.8	332.0	631.5	16.2	10.2	263.2
	South Carolina	-	377	311	98.9	1 751.4	86.3	182.5	1 387.7	3 746.0	5 986.4	9 677.4	331.3	113.2	2 813.6
	South Dakota	-	3	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Tennessee	-	137	102	23.9	392.1	20.5	40.0	292.1	872.3	1 184.2	1 999.6	46.1	24.1	557.7
	Texas	E1	105	31	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	Vermont	E1	27	10	.7	12.0	.6	1.1	7.6	28.3	38.2	66.5	(D)	.7	22.2
	Virginia	-	102	77	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	36.6	935.0
	Washington	E1	37	13	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	24.2
	West Virginia	-	7	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	19.3
	Wisconsin	-	46	23	3.6	70.9	2.8	5.3	45.5	155.2	119.0	270.6	8.5	FF	(D)
221	Broadwoven fabric mills, cotton	-	301	151	72.3	1 260.0	64.9	137.9	1 072.1	2 610.2	2 915.9	5 508.3	198.9	76.9	1 637.5
	Alabama	-	10	9	6.4	105.4	5.8	12.1	89.2	231.3	192.6	423.2	(D)	7.7	179.9
	Georgia	-	27	22	13.9	235.3	12.5	25.9	194.7	571.5	542.2	1 109.8	47.3	17.1	309.2
	Mississippi	-	3	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	New Jersey	E7	12	7	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	14.9
	North Carolina	-	47	34	23.8	419.8	21.2	45.8	365.4	966.9	1 114.9	2 102.7	53.9	26.6	539.1
	Pennsylvania	E1	15	6	.6	9.4	.5	1.1	8.1	20.7	19.6	40.0	2.4	AA	(D)
	South Carolina	-	44	36	13.6	239.7	12.6	27.1	210.1	454.9	609.9	1 045.4	40.3	16.8	350.8
	Tennessee	-	5	4	2.2	39.8	2.0	4.1	33.5	63.4	53.9	116.4	(D)	2.5	61.0
	Texas	-	10	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	Virginia	-	9	5	8.1	143.6	7.1	15.2	118.1	141.3	200.1	331.7	(D)	EE	(D)
222	Broadwoven fabric mills, manmade fiber and silk	-	436	270	88.3	1 595.7	77.0	163.2	1 272.7	3 595.9	4 504.0	8 048.9	314.3	140.8	3 488.6
	Alabama	-	19	14	5.8	105.6	4.9	10.5	84.5	246.7	195.5	438.7	20.1	6.7	154.8
	Georgia	-	27	23	9.1	172.6	7.7	17.1	132.9	432.5	481.1	900.1	56.7	13.2	414.4
	Maine	-	7	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.8	48.2
	Massachusetts	-	9	8	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.4	85.4
	New Jersey	E3	14	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	13.3
	North Carolina	-	65	56	19.2	336.9	16.7	36.4	272.6	753.5	1 008.9	1 758.6	80.3	34.6	836.8
	Pennsylvania	-	27	22	3.4	58.7	2.9	5.8	45.0	138.7	147.0	284.3	5.7	4.0	103.2
	South Carolina	-	87	81	36.3	651.9	32.6	68.0	540.0	1 414.7	1 841.1	3 242.9	112.5	52.3	1 277.4
	Tennessee	-	5	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.4	41.2
	Texas	-	12	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.7	59.2
	Virginia	-	13	12	4.4	81.5	4.0	8.3	68.3	215.6	328.8	531.2	11.7	14.2	282.0
223	Broadwoven fabric mills, wool	-	118	68	14.0	235.8	12.2	24.5	183.8	498.0	589.1	1 050.7	40.1	13.1	349.4
	Georgia	-	9	9	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	Maine	-	9	6	2.1	35.3	1.9	3.8	27.9	69.1	68.9	137.1	2.2	2.1	64.8
	Massachusetts	-	16	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.7	55.0
	New Hampshire	-	6	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	31.2
	North Carolina	-	6	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Rhode Island	E1	10	8	1.1	22.1	1.0	2.0	16.4	35.6	39.3	73.1	(D)	EE	(D)
	Virginia	E2	5	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
224	Narrow fabric mills	-	272	166	18.5	295.5	15.7	31.6	210.7	580.1	557.7	1 135.7	32.5	17.5	464.7
	Alabama	-	5	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	California	E2	15	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	4.5
	Maryland	-	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	Massachusetts	E1	20	14	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8	24.2
	New Hampshire	-	8	7	.9	19.5	.7	1.5	11.6	47.3	22.4	71.2	(D)	.9	34.0

See footnotes at end of table.

Table 2. Industry Group Statistics by State: 1987 and 1982—Con.

[Includes industry groups with 450 manufacturing employees or more. Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes.]

1987 SIC code	Industry group and geographic area	1987											1982		
		E ¹	All establishments ²		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materials ⁴ (million dollars)	Value of shipments ⁴ (million dollars)	New capital expend- itures (million dollars)	All em- ployees ³ (1,000)	Value added by manu- facture (million dollars)
			Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
22	Textile mill products—Con.														
224	Narrow fabric mills— Con.														
	New Jersey	E2	17	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	17.3
	North Carolina	-	40	33	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	Pennsylvania	E1	33	21	2.3	36.6	1.9	3.7	25.0	65.3	44.8	109.2	2.1	2.0	48.7
	Rhode Island	-	29	18	2.3	36.6	2.0	4.1	26.2	62.9	64.1	125.8	3.1	2.6	60.4
	South Carolina	-	16	13	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.6	41.8
	Virginia	-	6	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9	15.5
225	Knitting mills	-	2 127	1 256	203.1	2 988.3	175.6	341.9	2 292.8	6 269.3	7 344.3	13 530.5	388.1	204.8	4 985.4
	Alabama	E1	108	56	7.3	102.0	6.4	12.3	77.8	187.9	331.5	517.6	16.8	4.9	95.3
	California	E2	107	52	5.1	76.7	4.1	7.9	51.7	162.8	198.7	358.0	(D)	3.5	80.9
	Connecticut	E1	13	9	1.1	17.1	1.0	1.9	13.8	47.9	30.3	77.7	(D)	1.7	43.7
	Florida	E4	49	24	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.1	45.1
	Georgia	-	41	32	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	Illinois	E3	16	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	10.9
	Kentucky	-	9	7	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	Louisiana	-	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Massachusetts	-	29	16	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.9	95.7
	Minnesota	E3	9	7	.9	14.9	.8	1.5	10.8	23.6	22.3	45.3	(D)	.9	17.5
	Mississippi	-	12	10	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.4	81.6
	New Hampshire	E1	15	9	.8	10.9	.6	1.1	6.3	33.4	36.6	70.2	.5	.6	17.2
	New Jersey	E1	165	83	5.9	101.7	5.0	9.7	74.8	182.8	200.4	382.6	7.0	7.4	161.4
	New Mexico	-	3	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	New York	E3	556	245	19.3	293.6	16.8	32.5	218.7	556.3	637.1	1 192.8	29.7	18.6	490.4
	North Carolina	-	583	432	81.3	1 152.6	71.3	139.1	908.2	2 373.4	3 127.2	5 483.9	177.0	80.5	1 794.1
	Ohio	E1	13	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.8	59.3
	Pennsylvania	-	142	90	12.7	199.0	10.5	20.2	145.1	495.1	510.2	990.8	24.1	22.5	559.7
	Rhode Island	E1	26	15	1.5	28.5	1.2	2.4	19.8	57.0	83.3	141.7	(D)	1.0	31.1
	South Carolina	-	53	40	9.9	151.4	8.2	18.3	114.4	344.1	375.5	714.9	21.1	9.0	280.2
	Tennessee	-	55	45	12.2	154.2	10.6	19.8	116.9	417.1	290.0	682.8	20.5	12.6	270.6
	Virginia	-	27	22	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	9.9	292.5
	West Virginia	-	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	Wisconsin	-	17	12	2.3	36.0	1.8	3.3	22.8	67.0	57.5	122.8	(D)	2.7	73.6
226	Textile finishing, except wool	-	648	321	56.1	1 036.0	45.5	94.9	739.6	2 320.5	4 789.7	7 041.6	172.6	58.1	1 590.3
	Alabama	-	8	7	1.2	17.7	1.1	2.1	13.8	77.6	233.1	313.3	(D)	1.4	50.8
	California	E4	62	14	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8	20.6
	Connecticut	-	12	8	.8	18.3	.6	1.3	11.5	32.7	27.1	56.5	2.8	.9	16.6
	Georgia	-	40	30	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5.5	166.3
	Illinois	-	10	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	8.1
	Massachusetts	-	35	25	3.9	82.4	3.0	6.1	53.0	175.9	141.4	311.2	(D)	5.1	158.1
	New Jersey	E1	67	44	3.7	89.5	3.0	6.8	64.6	173.5	136.8	306.9	8.5	4.5	139.3
	New York	E5	55	15	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.7	35.5
	North Carolina	-	89	68	12.1	209.7	10.0	19.9	150.5	456.3	1 143.6	1 584.4	39.5	10.9	259.3
	Pennsylvania	E4	41	20	1.5	25.6	1.2	2.5	19.2	58.9	78.3	131.8	3.0	1.4	36.3
	Rhode Island	-	18	10	1.2	24.9	1.0	2.0	17.6	53.3	47.7	96.3	2.3	1.6	45.0
	South Carolina	-	46	41	16.4	306.1	13.6	28.2	224.5	618.2	1 616.6	2 229.8	64.7	16.0	397.4
	Tennessee	-	11	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9	22.3
	Virginia	-	14	11	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
227	Carpets and rugs	-	475	245	53.3	1 039.2	40.6	85.2	691.5	3 060.0	6 815.8	9 795.0	222.8	41.8	1 711.7
	Alabama	-	6	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	31.8
	Arkansas	-	3	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	California	-	54	28	3.7	91.1	2.4	5.2	40.3	241.7	446.9	687.7	20.2	3.7	139.6
	Georgia	-	251	142	32.9	656.8	24.6	52.3	442.4	1 966.0	5 012.2	6 908.6	155.1	23.9	1 149.0
	North Carolina	-	39	10	3.1	51.4	2.5	5.2	38.5	165.9	331.6	493.2	8.5	3.0	103.0
	Pennsylvania	-	9	6	2.8	55.2	2.2	4.5	39.8	85.5	191.7	276.9	13.0	2.7	68.5
	South Carolina	-	17	14	3.2	52.5	2.7	5.4	36.7	162.7	303.5	461.6	7.3	2.4	80.5
	Tennessee	-	10	7	1.3	20.6	1.1	2.2	16.5	49.1	122.7	171.4	(D)	1.1	40.8
	Virginia	-	6	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
228	Yarn and thread mills ..	-	612	489	113.9	1 849.9	102.9	213.2	1 534.7	3 858.9	6 460.9	10 277.3	397.5	108.6	2 318.2
	Alabama	-	34	31	8.8	151.1	8.1	17.1	131.4	357.6	453.5	810.8	42.9	6.8	142.8
	California	-	14	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	29.8
	Connecticut	-	10	8	.9	14.7	.7	1.4	10.4	27.4	22.3	52.0	(D)	1.7	42.1
	Georgia	-	105	92	23.1	378.3	20.7	41.7	313.2	833.7	1 452.0	2 278.5	97.9	17.1	373.1
	Kentucky	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	Maine	E3	12	9	.7	10.2	.6	1.3	8.3	15.1	14.8	30.4	(D)	1.4	18.4
	Massachusetts	E1	21	13	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.7	37.1
	New York	E5	24	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	16.1
	North Carolina	-	212	191	53.8	852.7	49.1	102.5	717.4	1 745.8	2 952.8	4 668.5	189.5	54.4	1 151.7
	Pennsylvania	E2	30	23	2.2	31.1	1.9	3.6	23.5	48.6	86.3	132.6	2.2	3.0	54.8
	Rhode Island	E1	13	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	23.4
	South Carolina	-	62	58	13.2	226.8	11.7	25.1	182.2	454.9	888.1	1 343.9	46.5	9.4	213.4
	Tennessee	-	19	15	2.9	49.6	2.6	5.6	40.1	106.9	207.3	308.6	(D)	3.8	73.8
	Virginia	-	9	9	2.0	28.8	1.8	3.6	24.5	45.3	66.9	111.4	2.1	3.3	59.9
229	Miscellaneous textile goods	E1	1 076	447	52.5	1 109.2	40.6	83.2	730.6	2 867.1	3 588.0	6 398.2	260.8	55.8	2 004.5
	Alabama	-	30	12	2.4	41.6	1.9	3.7	31.3	214.1	220.4	432.8	8.2	2.3	151.0
	Arkansas	-	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	California	E1	92	31	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.1	69.0
	Connecticut	E3	23	8	.8	16.7	.5	1.0	9.5	37.8	45.6	83.8	(D)	1.9	79.8
	Georgia	E1	63	29	5.1	96.5	4.2	8.6	69.9	276.3	390.0	665.9	16.3	5.5	194.4

See footnotes at end of table.

Table 2. Industry Group Statistics by State: 1987 and 1982—Con.

[Includes industry groups with 450 manufacturing employees or more. Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes.]

1987 SIC code	Industry group and geographic area	1987											1982		
		All establishments ²		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materials ⁴ (million dollars)	Value of shipments ⁴ (million dollars)	New capital expend- itures (million dollars)	All em- ployees ³ (1,000)	Value added by manu- facture (million dollars)	
		E ¹	Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							Wages (million dollars)
22	Textile mill products—Con.														
229	Miscellaneous textile goods—Con.														
	Illinois	-	28	12	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8	21.9
	Indiana	-	15	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	15.3
	Kentucky	-	8	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9	21.1
	Maine	-	16	8	1.4	24.9	1.2	2.3	18.7	60.1	77.1	136.3	1.5	1.4	51.4
	Massachusetts	E2	71	33	3.5	84.1	2.6	6.2	54.0	172.3	212.3	380.8	15.0	4.1	162.0
	Michigan	E1	20	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.5	56.5
	Mississippi	-	14	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	New Hampshire	E6	13	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	21.3
	New Jersey	E2	76	20	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.9	92.9
	New York	E3	125	52	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.5	149.3
	North Carolina	-	104	56	6.3	117.4	5.2	10.5	81.8	315.9	438.7	752.2	43.2	6.4	217.6
	Ohio	E1	35	22	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.0	73.1
	Pennsylvania	E2	56	23	2.5	46.7	1.8	3.6	27.8	128.2	134.6	259.4	14.1	3.2	93.1
	Rhode Island	-	19	11	1.1	21.1	.8	1.6	13.7	44.3	64.5	112.1	3.1	1.9	52.9
	South Carolina	-	50	26	4.2	90.2	3.2	6.8	55.4	231.2	278.9	501.9	32.5	5.1	163.6
	South Dakota	-	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Tennessee	-	27	17	2.8	84.4	2.0	4.1	51.1	127.1	332.1	432.3	(D)	1.4	36.3
	Texas	E2	42	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	15.9
	Virginia	-	13	7	.8	13.4	.7	1.3	9.5	43.5	48.8	92.3	4.5	6	19.5
	Washington	-	15	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	5.8
	Wisconsin	-	12	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9	61.1
23	Apparel and other textile products	E1	23 168	9 520	1 080.6	13 903.6	911.5	1 615.5	9 879.2	32 515.6	32 005.5	64 242.6	736.4	1 189.0	26 060.5
	Alabama	-	397	269	58.3	644.6	52.2	91.2	531.0	1 328.0	1 335.0	2 662.2	31.8	56.6	989.8
	Arizona	E1	156	49	4.7	55.2	4.2	7.1	42.8	116.7	74.0	189.9	1.5	5.7	105.4
	Arkansas	-	109	64	10.4	108.4	9.3	17.3	88.9	267.5	119.3	386.7	7.8	10.4	206.7
	California	E1	4 972	1 643	126.8	1 658.7	103.1	175.6	1 058.2	3 988.2	4 353.9	8 284.9	73.4	106.3	2 565.4
	Colorado	E2	149	32	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.1	77.5
	Connecticut	E1	174	72	6.0	85.3	5.0	9.1	56.7	173.1	172.3	342.8	(D)	9.1	218.0
	Delaware	-	29	14	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.8	30.9
	Florida	E2	1 223	377	31.7	376.8	26.9	46.2	267.9	849.5	788.8	1 625.5	19.7	33.5	570.2
	Georgia	-	644	434	70.3	813.1	59.1	106.5	585.6	1 900.7	1 872.6	3 762.2	48.5	73.7	1 615.3
	Hawaii	E1	181	47	3.4	38.7	2.7	4.6	25.2	88.0	72.1	159.1	2.0	3.4	56.5
	Illinois	E1	450	161	15.1	237.0	11.9	22.4	145.1	633.7	564.5	1 174.2	(D)	18.1	453.7
	Indiana	E1	180	65	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	7.9	200.3
	Iowa	-	93	34	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.6	72.1
	Kansas	-	78	31	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.5	318.5
	Kentucky	-	163	124	27.2	309.9	25.2	43.2	267.3	671.2	433.4	1 097.7	29.3	24.0	455.6
	Louisiana	-	103	51	8.0	92.4	7.2	13.0	70.8	202.6	116.4	322.4	4.5	8.9	156.7
	Maine	-	62	18	2.8	38.0	2.2	4.2	26.2	90.2	86.8	175.3	(D)	4.1	166.2
	Maryland	E1	203	79	10.0	139.9	8.4	14.8	101.6	292.9	239.5	529.0	(D)	13.9	371.3
	Massachusetts	E1	574	255	27.2	382.6	22.3	39.6	255.3	809.5	837.6	1 626.3	19.6	38.3	838.0
	Michigan	-	240	67	19.6	601.4	16.4	33.6	479.9	1 165.0	1 534.3	2 703.0	(D)	16.5	744.3
	Minnesota	E3	174	41	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	Mississippi	-	219	165	34.3	338.9	30.2	54.4	272.5	761.2	567.4	1 327.9	16.9	37.2	581.5
	Missouri	E1	301	169	20.7	234.7	17.8	31.4	178.2	557.5	408.8	960.9	15.7	24.0	452.0
	Montana	-	18	3	.5	7.4	.4	.9	5.7	13.6	8.8	22.2	(D)	(NA)	(NA)
	Nebraska	-	50	15	1.9	22.2	1.6	2.9	16.3	83.1	80.2	161.1	1.4	1.9	49.5
	New Hampshire	E6	76	23	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.4	64.8
	New Jersey	E1	1 394	536	42.9	643.6	34.6	61.1	411.7	1 392.2	1 617.3	3 005.6	25.8	50.7	1 194.3
	New Mexico	-	26	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	New York	E1	5 057	1 752	127.3	1 943.6	100.2	171.3	1 163.8	5 005.4	6 058.3	11 014.9	73.4	171.5	4 750.3
	North Carolina	-	780	522	78.5	908.2	67.7	123.7	685.0	1 916.8	2 075.8	3 977.1	56.1	77.5	1 384.2
	North Dakota	-	16	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	Ohio	-	334	109	13.2	214.2	10.6	20.0	145.5	507.4	467.7	969.3	(D)	14.9	467.0
	Oklahoma	-	143	62	8.2	94.4	7.2	13.6	76.5	193.0	215.3	396.5	5.0	9.1	175.6
	Oregon	E2	127	22	2.6	32.7	2.3	4.0	24.4	69.7	60.4	127.7	1.4	3.0	64.0
	Pennsylvania	E1	1 412	847	88.9	1 091.9	77.2	134.7	816.5	2 198.9	1 816.7	4 019.1	34.3	116.1	2 064.4
	Rhode Island	E1	85	25	2.9	36.5	2.5	3.7	26.8	98.8	91.7	190.1	1.7	3.3	66.2
	South Carolina	-	380	259	41.9	447.5	36.2	67.2	341.5	908.5	849.0	1 746.7	23.8	45.7	776.1
	South Dakota	E1	26	14	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9	13.6
	Tennessee	-	485	342	59.8	638.9	52.6	93.0	505.1	1 524.2	1 185.7	2 698.0	40.0	58.8	1 142.3
	Texas	-	847	314	49.6	605.4	41.5	74.0	432.5	1 697.3	1 444.6	3 153.7	28.2	66.7	1 436.8
	Utah	-	110	44	5.6	63.4	4.6	7.6	44.3	131.1	88.0	217.1	2.9	6.1	119.2
	Vermont	E3	55	15	1.3	15.9	1.0	1.8	9.9	36.2	29.3	65.2	(D)	1.3	28.2
	Virginia	-	332	199	34.4	372.3	31.1	56.3	313.6	908.3	536.2	1 426.7	17.5	33.4	540.4
	Washington	E1	239	50	5.4	72.4	4.4	7.9	51.0	155.5	180.4	340.9	4.1	4.7	94.2
	West Virginia	E2	45	25	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.1	77.5
	Wisconsin	-	165	60	6.3	91.3	5.2	9.5	62.2	339.2	344.5	681.6	(D)	5.9	149.1
231	Men's and boys' suits and coats	-	337	236	55.2	779.0	48.1	85.8	596.4	1 761.2	1 110.8	2 863.3	29.1	75.2	1 683.0
	Alabama	-	7	6	1.2	11.7	1.1	1.7	10.5	18.6	5.8	24.6	(D)	1.5	23.5
	California	E2	24	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.6	53.0
	Florida	E1	14	9	1.1	12.3	1.0	1.7	9.5	35.5	27.5	62.1	(D)	.6	10.6
	Georgia	-	21	18	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5.8	121.6
	Illinois	-	12	7	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	Kentucky	-	9	9	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.6	35.2
	Maryland	-	9	8	1.6	23.0	1.5	2.6	20.4	53.7	31.4	82.2	(D)	3.1	83.6
	Massachusetts	-	18	14	4.7	74.3	4.0	7.6	55.4	153.8	141.4	292.2	(D)	6.3	189.0
	Mississippi	-	6	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Missouri	-	7	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)

See footnotes at end of table.

Table 2. Industry Group Statistics by State: 1987 and 1982—Con.

[Includes industry groups with 450 manufacturing employees or more. Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes.]

1987 SIC code	Industry group and geographic area	1987												1982	
		All establishments ²		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materials ⁴ (million dollars)	Value of shipments ⁴ (million dollars)	New capital expend- itures (million dollars)	All em- ployees ³ (1,000)	Value added by manu- facture (million dollars)	
		E ¹	Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							Wages (million dollars)
23	Apparel and other textile products— Con.														
231	Men's and boys' suits and coats—Con.														
	New Jersey	E2	22	15	1.8	23.9	1.6	2.9	17.6	48.2	27.1	76.2	.5	3.1	57.5
	New York	E1	69	34	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	9.3	211.5
	North Carolina	-	5	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Ohio	-	5	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.9	119.2
	Pennsylvania	E1	54	43	11.6	181.5	10.2	17.7	140.7	348.7	262.3	603.5	5.8	16.1	380.3
	South Carolina	-	4	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Tennessee	-	8	7	2.4	32.2	2.2	4.0	26.7	57.6	102.8	167.7	(D)	4.1	65.0
	Texas	E2	10	9	3.1	39.2	2.7	5.3	32.8	72.3	29.9	100.5	(D)	3.6	53.5
	Virginia	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
232	Men's and boys' furnishings	-	2 194	1 627	279.8	3 245.5	245.9	441.9	2 505.9	8 473.7	7 004.5	15 440.7	188.7	298.9	6 621.2
	Alabama	-	130	115	28.4	308.6	25.6	45.0	261.1	619.9	479.7	1 102.6	19.2	28.1	401.2
	Arizona	-	17	11	1.5	14.5	1.4	2.3	12.7	36.4	19.5	56.0	.2	2.6	40.4
	Arkansas	-	31	27	5.3	56.5	4.9	9.1	47.3	153.5	60.2	215.1	4.6	6.8	145.4
	California	-	254	164	14.1	181.0	11.8	21.3	127.0	511.7	600.5	1 110.0	(D)	10.3	254.3
	Colorado	E2	13	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	32.1
	Connecticut	-	13	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	35.3
	Florida	E2	90	51	5.9	68.4	5.3	9.1	52.8	134.4	134.9	271.1	1.9	4.9	87.3
	Georgia	-	161	150	30.1	324.9	26.5	47.4	252.2	775.3	559.5	1 339.1	19.2	32.9	720.7
	Hawaii	E1	27	14	1.0	12.3	.8	1.5	7.8	23.0	22.0	44.5	(D)	.8	13.1
	Illinois	E1	29	15	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.6	33.8
	Indiana	-	19	12	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.2	90.0
	Iowa	-	14	12	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	22.8
	Kansas	-	16	12	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Kentucky	-	58	55	13.7	151.3	12.8	22.2	131.7	356.8	245.0	600.9	(D)	11.8	266.2
	Louisiana	-	24	22	5.3	65.4	4.8	8.9	50.3	152.5	68.1	225.5	1.8	4.8	83.3
	Maine	-	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Maryland	-	23	13	1.8	23.2	1.6	2.7	18.0	51.1	38.9	92.1	.6	2.5	51.1
	Massachusetts	E1	29	12	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.8	61.2
	Michigan	E2	14	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	9.3
	Mississippi	-	83	78	18.4	169.3	16.4	29.1	139.9	372.2	287.5	664.3	11.0	19.8	296.8
	Missouri	-	55	53	8.1	87.6	7.2	12.9	71.3	209.7	126.1	336.8	6.5	10.2	175.8
	Nebraska	-	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	10.9
	New Jersey	-	45	29	2.2	33.1	1.7	3.1	21.2	73.6	77.0	154.0	2.1	2.2	67.8
	New Mexico	-	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	New York	E1	280	144	11.8	185.2	9.5	17.2	113.5	520.9	681.7	1 195.0	10.3	13.8	490.1
	North Carolina	-	138	122	23.1	252.8	20.1	36.6	193.1	619.7	617.9	1 238.1	13.3	20.0	354.6
	Ohio	-	27	13	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.2	56.3
	Oklahoma	-	25	23	4.1	49.2	3.7	7.1	43.1	105.5	103.9	201.7	2.5	4.2	87.8
	Oregon	-	8	5	.5	6.1	.4	.8	4.7	20.8	12.3	31.7	(D)	CC	(D)
	Pennsylvania	-	128	98	13.7	169.1	12.3	22.4	134.8	300.2	217.7	512.5	6.2	16.6	330.5
	South Carolina	-	58	50	10.0	109.5	8.8	16.5	84.7	237.4	225.0	456.4	6.1	10.0	182.5
	Tennessee	-	148	126	29.8	328.6	26.6	47.9	264.4	845.1	591.1	1 423.1	24.8	30.7	743.3
	Texas	-	82	66	18.6	234.6	16.0	28.3	172.6	850.4	664.5	1 533.9	(D)	26.3	661.0
	Utah	-	15	9	1.1	10.8	1.0	1.5	9.0	26.4	4.6	30.9	.3	1.2	28.4
	Virginia	-	41	38	10.4	114.5	9.6	17.8	102.8	290.8	156.2	434.1	5.8	11.0	188.7
	Washington	-	17	13	1.2	14.8	1.0	1.8	10.6	28.0	19.2	47.6	.7	1.8	37.9
	West Virginia	-	6	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8	18.1
	Wisconsin	-	15	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.7	48.5
233	Women's and misses' outerwear	E1	10 257	4 217	348.5	4 296.6	290.2	484.8	2 843.6	9 685.9	9 776.1	19 388.9	161.0	418.9	8 576.1
	Alabama	E2	114	72	9.7	91.1	8.6	14.1	72.9	136.6	52.3	188.8	3.8	9.2	121.5
	Arizona	E3	34	12	.8	8.2	.6	1.0	5.6	15.1	7.7	23.2	.1	.7	16.2
	Arkansas	-	22	16	2.8	29.3	2.5	4.5	23.2	69.2	25.6	93.5	1.1	1.6	22.9
	California	E1	3 277	1 065	75.1	963.6	61.2	98.1	593.3	2 263.9	2 558.4	4 785.0	37.2	63.0	1 573.2
	Connecticut	E2	66	33	2.1	28.4	1.9	3.4	19.6	49.1	47.3	96.0	(D)	4.3	82.3
	Delaware	-	7	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	1.6
	Florida	E2	546	177	12.6	140.6	10.4	17.0	92.4	309.8	289.2	590.1	6.9	17.0	265.5
	Georgia	-	151	94	12.4	133.6	10.2	17.6	94.7	296.0	399.9	691.5	7.5	12.9	254.3
	Hawaii	E2	107	22	1.5	16.2	1.2	1.9	9.9	34.0	23.0	57.1	.4	1.7	26.3
	Illinois	E1	123	52	3.5	47.1	3.0	5.2	32.7	102.1	93.4	195.0	(D)	5.3	113.7
	Indiana	E2	17	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8	19.1
	Kentucky	-	39	31	5.6	58.0	5.1	9.1	48.9	105.5	37.7	140.6	1.5	6.2	75.0
	Louisiana	-	21	11	1.1	10.3	1.0	1.8	8.4	21.6	10.7	32.0	.9	.9	16.8
	Maryland	E4	46	21	2.0	25.4	1.7	2.8	16.8	39.1	26.0	63.9	(D)	3.5	71.7
	Massachusetts	E1	228	121	9.4	127.6	7.6	12.6	80.0	266.7	287.0	545.9	(D)	15.9	318.1
	Michigan	E2	33	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
	Minnesota	E4	27	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	Mississippi	E1	46	32	5.7	58.3	5.1	9.6	47.8	114.5	66.4	178.8	2.0	5.8	99.2
	Missouri	E1	49	27	3.3	40.0	2.8	4.7	29.9	69.4	29.1	97.7	1.3	4.0	76.9
	Nebraska	-	13	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	New Hampshire	E3	21	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.4	29.0
	New Jersey	E1	567	272	18.3	265.5	14.8	24.6	162.6	574.3	674.0	1 249.8	8.5	23.5	512.0
	New York	E2	2 789	1 025	62.7	970.2	48.9	79.3	550.5	2 559.4	3 105.4	5 651.8	30.1	87.0	2 482.3
	North Carolina	E2	201	130	13.6	140.0	11.9	19.9	106.5	245.8	168.2	408.1	(D)	19.4	298.0
	Ohio	-	40	18	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.7	76.4
	Oklahoma	E3	30	10	.8	7.6	.7	1.2	5.6	13.1	12.3	25.4	.2	1.3	19.2
	Oregon	E2	30	7	.9	9.9	.8	1.3	8.1	18.7	8.9	27.2	(D)	1.0	20.5
	Pennsylvania	E1	697	444	35.7	396.3	30.8	51.7	285.7	770.3	745.1	1 536.6	8.2	54.4	818.2
	South Carolina	E1	138	103	13.3	121.1	11.3	19.0	91.7	184.5	88.2	272.6	4.6	15.2	186.5
	Tennessee	E1	149	120	17.2	160.2	15.0	26.2	126.9	331.4	201.3	529.3	6.5	15.9	200.6

See footnotes at end of table.

Table 2. Industry Group Statistics by State: 1987 and 1982—Con.

[Includes industry groups with 450 manufacturing employees or more. Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes.]

1987 SIC code	Industry group and geographic area	1987											1982	
		All establishments ²		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materials ⁴ (million dollars)	Value of shipments ⁴ (million dollars)	New capital expend- itures (million dollars)	All em- ployees ³ (1,000)	Value added by manu- facture (million dollars)
		E ¹	Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
23	Apparel and other textile products— Con.													
233	Women's and misses' outerwear—Con.													
	Texas	E1	301	107	13.0	150.5	11.1	18.9	106.9	346.2	288.4	630.3	(D)	20.8
	Utah	E1	29	16	2.1	25.2	1.7	2.6	15.6	48.4	35.6	82.4	1.5	2.6
	Vermont	E3	13	5	.6	8.0	.5	.8	4.8	21.6	14.7	35.2	(D)	.6
	Virginia	-	107	74	11.9	129.0	10.8	19.6	107.6	343.3	149.7	489.5	6.4	10.9
	Washington	-	51	16	2.0	24.6	1.6	2.9	17.3	62.0	69.9	137.3	(D)	1.3
	West Virginia	E6	14	11	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.2
	Wisconsin	-	21	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.1
234	Women's and children's undergarments	-	562	422	67.6	843.8	56.2	103.5	591.0	2 005.9	1 744.0	3 738.2	51.6	81.6
	Alabama	-	15	15	6.6	83.5	5.8	10.7	65.2	181.1	198.1	376.7	(D)	8.1
	Arizona	-	6	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC
	Arkansas	-	4	4	.5	4.9	.4	.8	3.7	8.8	6.7	15.4	(D)	AA
	California	-	55	36	4.9	66.4	3.5	6.8	39.8	177.1	146.9	324.1	(D)	5.0
	Connecticut	-	9	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8
	Florida	E2	17	13	1.5	15.5	1.4	2.3	13.5	23.8	8.9	32.6	.5	2.3
	Georgia	-	27	27	5.4	59.5	4.3	8.1	40.8	189.7	147.5	336.3	(D)	6.6
	Kentucky	-	4	4	1.8	24.4	1.8	3.0	23.1	46.0	58.8	102.9	(D)	CC
	Massachusetts	-	13	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.9
	Michigan	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE
	Mississippi	-	13	12	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.5
	Missouri	-	11	10	1.1	13.0	.9	1.5	7.8	27.2	36.7	64.8	(D)	1.8
	New Jersey	E1	38	29	3.4	53.0	2.3	4.2	25.7	120.2	123.7	242.0	2.5	3.9
	New York	E1	147	66	6.3	96.2	5.1	9.2	54.8	317.7	337.4	647.2	2.5	9.8
	North Carolina	-	61	60	10.5	123.5	8.9	16.5	88.3	248.0	234.4	488.0	(D)	9.9
	Oklahoma	-	5	4	1.2	14.9	.9	1.8	10.3	25.7	25.3	50.4	(D)	1.2
	Pennsylvania	-	66	63	9.0	101.0	7.9	14.1	80.1	246.8	147.7	391.5	4.1	9.0
	South Carolina	-	8	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.5
	Tennessee	E1	6	6	.9	9.2	.7	1.5	7.1	19.5	8.9	28.4	(D)	1.5
	Texas	-	14	12	2.8	31.8	2.1	4.0	21.8	85.3	64.0	150.2	(D)	3.3
	Utah	-	6	4	.9	9.8	.7	1.4	7.9	15.0	7.1	21.1	(D)	1.0
	Virginia	E1	7	7	1.0	9.0	.8	1.5	6.7	30.3	13.3	43.5	(D)	1.5
235	Hats, caps, and millinery	E1	462	170	17.2	204.4	14.6	26.5	148.4	368.0	294.6	662.7	7.2	15.7
	California	E2	40	16	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7
	Georgia	E2	14	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3
	Iowa	-	2	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE
	Missouri	E2	39	25	2.5	24.7	2.3	4.3	21.2	72.7	36.4	107.9	.8	2.7
	New York	E2	152	47	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.5
	Pennsylvania	-	16	7	1.2	19.0	1.1	2.0	14.0	30.7	29.2	59.7	.6	1.0
	Texas	E1	30	9	1.9	19.7	1.3	2.1	11.6	34.7	33.2	67.5	(D)	EE
	Virginia	-	10	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0
236	Girls' and children's outerwear	-	835	572	71.7	825.8	60.9	107.0	609.5	1 983.7	1 788.5	3 753.1	34.7	71.3
	Alabama	-	16	14	4.5	45.6	3.9	5.9	38.9	79.5	84.9	161.9	1.3	3.7
	California	E1	91	48	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.8
	Florida	E2	53	33	2.8	33.0	2.5	4.4	24.8	75.7	65.6	141.6	1.1	2.1
	Georgia	-	34	28	5.2	56.5	4.3	7.5	42.1	138.1	82.9	218.1	3.1	4.8
	Kentucky	-	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC
	Maryland	-	6	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2
	Massachusetts	E1	13	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2
	Michigan	-	5	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB
	Mississippi	-	14	12	2.0	18.3	1.6	2.8	12.3	52.1	25.4	77.1	.9	1.6
	Missouri	-	6	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE
	New Jersey	E1	48	30	2.4	33.7	1.9	3.2	22.6	80.5	98.6	177.7	1.3	3.5
	New York	E1	165	92	6.3	99.6	4.9	8.7	59.9	292.2	411.7	695.8	5.1	9.0
	North Carolina	-	74	68	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	7.7
	Ohio	E1	8	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB
	Oklahoma	-	11	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC
	Pennsylvania	-	97	78	6.9	76.2	6.0	10.2	56.3	150.8	112.6	261.9	1.8	8.8
	Rhode Island	-	4	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE
	South Carolina	-	33	31	7.8	80.2	6.7	13.6	59.8	152.4	152.2	300.7	2.1	6.6
	Tennessee	-	23	17	3.6	39.1	3.3	5.1	33.6	95.6	59.5	157.0	(D)	2.1
	Texas	E1	23	12	1.9	21.4	1.6	2.8	16.6	67.7	36.7	103.2	(D)	2.9
	Virginia	-	37	35	5.9	58.3	5.3	9.5	50.3	119.1	89.1	207.9	2.2	5.2
	Wisconsin	-	7	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA
237	Fur goods	E2	380	17	2.2	48.2	1.5	2.7	28.1	131.2	292.6	422.6	1.2	3.4
	New York	E2	334	13	1.7	41.1	1.1	2.1	23.1	110.4	263.2	373.2	(D)	3.0
238	Miscellaneous apparel and accessories	-	981	434	40.8	517.7	32.9	58.9	341.0	1 151.1	1 093.3	2 229.4	14.9	50.0
	Alabama	-	20	12	1.4	13.9	1.3	2.3	11.0	23.4	16.5	40.1	.9	EE
	California	-	150	48	3.8	50.6	3.1	5.5	30.7	113.4	85.8	197.4	(D)	3.7
	Connecticut	-	9	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2
	Florida	-	30	13	.9	10.8	.8	1.5	7.9	20.4	25.4	45.4	(D)	1.2
	Georgia	-	20	11	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.4
	Illinois	-	32	12	1.3	19.0	.9	1.8	10.1	54.0	45.9	98.3	(D)	1.4
	Maryland	-	8	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.6
	Massachusetts	-	29	12	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.8
	Michigan	-	6	4	.5	4.4	.4	.4	3.2	9.1	9.8	19.5	(D)	.8
	Mississippi	-	13	11	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.0

See footnotes at end of table.

Table 2. Industry Group Statistics by State: 1987 and 1982—Con.

[Includes industry groups with 450 manufacturing employees or more. Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry group and geographic area	1987											1982		
		All establishments ²			All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materials ⁴ (million dollars)	Value of shipments ⁴ (million dollars)	New capital expend- itures (million dollars)	All em- ployees ³ (1,000)	Value added by manu- facture (million dollars)
		E ¹	Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
23	Apparel and other textile products— Con.														
238	Miscellaneous apparel and accessories— Con.														
	Missouri	-	9	7	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	10.0
	New Jersey	-	48	20	1.9	29.0	1.6	2.8	19.1	65.7	72.1	135.1	1.3	2.4	55.8
	New York	-	287	113	8.8	119.8	6.9	12.4	77.0	268.8	310.2	578.3	(D)	10.7	280.6
	North Carolina	-	23	15	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.5	42.4
	Ohio	-	19	8	.8	15.6	.6	1.1	8.3	20.1	22.5	44.8	(D)	1.1	21.6
	Pennsylvania	-	54	31	2.9	38.8	2.5	4.4	27.7	88.7	68.5	156.5	1.2	2.7	54.5
	South Carolina	-	18	12	1.5	17.6	1.3	2.5	12.5	40.1	19.4	59.2	.9	EE	(D)
	Tennessee	-	24	17	2.0	20.0	1.5	2.5	13.5	46.4	62.7	108.2	(D)	1.3	14.5
	Texas	-	42	18	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.6	33.8
	Virginia	-	14	11	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	Wisconsin	-	15	10	.6	8.1	.5	.9	5.3	19.6	17.3	36.1	(D)	.5	11.2
239	Miscellaneous fabricated textile products	E1	7 160	1 825	197.6	3 142.7	161.4	304.4	2 215.2	6 954.8	8 901.2	15 743.8	248.0	173.8	4 498.4
	Alabama	-	89	33	6.5	89.4	5.7	11.3	70.7	267.7	496.7	765.2	2.8	4.4	165.9
	Arizona	E3	88	17	1.3	17.5	1.1	1.9	12.0	38.9	34.8	72.3	.8	1.1	31.6
	Arkansas	E1	38	8	.9	9.9	.8	1.4	8.2	19.1	14.5	33.3	1.4	.5	19.0
	California	E2	1 070	255	22.2	308.6	17.9	33.8	205.9	694.3	767.6	1 447.7	18.7	18.1	398.9
	Colorado	E2	94	14	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	34.8
	Connecticut	E2	68	16	1.4	22.0	1.1	2.1	13.9	38.7	45.8	84.8	(D)	1.5	37.3
	Florida	E2	444	75	6.5	91.6	5.3	9.7	63.6	242.5	230.8	468.7	6.4	5.1	109.6
	Georgia	E1	216	98	11.1	166.2	8.5	16.4	101.7	362.8	523.4	873.6	15.4	9.0	232.8
	Hawaii	-	29	6	.6	7.0	.5	.8	5.0	25.0	23.3	47.7	(D)	.6	15.2
	Illinois	E2	230	66	4.9	80.6	4.0	7.8	49.6	197.5	299.6	479.9	(D)	5.0	135.7
	Indiana	E1	130	38	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.6	69.1
	Iowa	E1	57	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	13.8
	Kansas	E1	44	12	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	Kentucky	-	39	14	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	36.5
	Louisiana	E2	44	12	.7	8.1	.6	1.1	5.7	16.8	25.5	41.6	(D)	.8	15.3
	Maine	E1	42	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	5.4
	Maryland	E2	106	25	2.1	37.8	1.6	3.1	24.5	71.2	76.4	148.1	(D)	1.7	41.0
	Massachusetts	E1	230	74	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	7.0	155.9
	Michigan	-	175	42	16.2	550.1	13.8	29.0	448.0	1 010.9	1 388.2	2 405.4	(D)	13.3	676.6
	Minnesota	E3	105	14	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	Mississippi	-	41	13	2.3	26.9	1.9	3.3	19.5	73.2	88.6	161.5	1.7	2.3	50.6
	Missouri	E2	125	37	3.0	40.8	2.4	4.1	25.9	97.9	137.6	230.3	3.0	3.0	74.1
	Montana	-	12	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	New Hampshire	E9	35	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	11.1
	New Jersey	E2	605	133	12.3	199.2	10.4	19.6	138.7	411.6	530.3	939.1	9.2	11.5	324.9
	New York	E2	834	218	19.8	285.8	15.3	27.0	177.3	607.1	756.7	1 353.2	16.1	25.4	536.2
	North Carolina	-	275	122	20.9	287.9	17.6	34.3	213.2	584.1	890.3	1 447.3	26.4	15.2	359.1
	North Dakota	-	13	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	Ohio	-	228	56	6.4	116.6	5.2	9.9	82.7	285.4	295.2	575.3	(D)	5.3	176.6
	Oklahoma	E2	64	11	1.0	12.4	.8	1.5	8.7	26.6	58.4	84.5	1.0	1.1	21.7
	Oregon	E2	80	8	1.0	14.3	.8	1.6	10.0	24.9	34.6	58.9	(D)	1.1	24.0
	Pennsylvania	E2	291	82	7.7	108.4	6.4	11.9	76.0	259.6	229.5	489.9	6.5	7.4	159.1
	Rhode Island	E2	56	12	1.0	13.8	.8	1.3	8.9	29.9	26.5	56.4	(D)	.7	19.5
	South Carolina	-	120	52	7.5	99.2	6.5	12.4	76.5	253.5	344.8	598.4	9.7	8.4	170.9
	South Dakota	E1	16	7	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
	Tennessee	-	117	46	3.6	45.8	3.0	5.4	31.0	122.5	154.5	273.2	3.6	2.6	52.1
	Texas	E2	345	81	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6.3	132.7
	Utah	-	48	12	1.1	12.6	.9	1.6	8.9	30.3	30.8	61.6	.5	.9	23.3
	Virginia	E1	113	25	2.4	31.0	2.0	3.6	21.5	107.7	171.3	2.5	2.0	43.2	43.2
	Washington	E2	149	18	2.0	29.4	1.6	2.9	20.3	59.2	86.3	144.6	(D)	1.3	26.5
	Wisconsin	-	97	24	1.9	29.4	1.5	2.9	18.2	97.6	83.6	178.6	(D)	1.1	23.5
24	Lumber and wood products	E1	33 987	7 370	698.4	12 706.5	581.3	1 151.2	9 523.7	28 664.6	41 258.8	69 746.7	1 825.2	576.4	15 376.6
	Alabama	E2	1 543	278	26.2	404.9	22.3	44.0	304.8	951.6	1 607.3	2 558.5	72.3	22.6	533.5
	Alaska	E4	68	18	1.7	56.5	1.5	3.4	46.9	141.7	138.2	279.8	10.3	2.2	94.3
	Arizona	E3	292	87	7.3	130.8	6.0	11.8	93.1	264.0	356.3	616.2	15.1	4.5	122.6
	Arkansas	E1	842	172	18.2	295.5	16.1	39.7	243.1	711.3	982.6	1 697.0	59.5	16.9	400.1
	California	E2	2 671	707	64.6	1 321.3	53.4	106.9	990.9	2 847.5	3 909.2	6 714.0	163.1	48.4	1 445.0
	Colorado	E2	311	45	3.9	68.9	3.1	6.0	48.9	132.9	177.3	308.2	5.1	3.8	99.7
	Connecticut	E2	242	43	3.4	71.9	2.6	5.0	45.9	140.6	140.0	279.6	10.2	2.4	51.9
	Delaware	-	39	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	21.4
	Florida	E2	1 368	309	25.7	419.4	20.7	40.3	292.7	821.2	1 411.8	2 236.3	50.6	19.0	434.8
	Georgia	E1	1 522	270	29.6	487.9	24.9	49.9	368.6	1 125.9	1 848.0	2 968.4	66.0	26.3	680.8
	Idaho	E1	553	128	11.5	238.6	10.1	19.8	196.2	530.9	946.6	1 475.1	53.2	10.9	252.8
	Illinois	E2	566	147	11.5	204.7	9.2	18.2	140.6	430.2	495.2	920.7	(D)	9.5	260.8
	Indiana	E1	691	223	21.4	376.6	17.6	34.5	269.4	799.0	1 027.3	1 826.3	36.2	15.3	394.9
	Iowa	-	174	34	6.0	125.7	5.0	9.8	96.2	287.7	280.7	560.6	19.1	4.1	133.2
	Kansas	E1	131	38	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.2	93.9
	Kentucky	E1	483	130	9.0	124.5	7.4	14.0	93.2	271.2	342.7	609.6	14.5	7.5	163.5
	Louisiana	E1	678	103	11.0	205.9	9.5	20.1	164.4	490.6	791.4	1 284.2	42.5	10.8	268.3
	Maine	E1	732	138	13.6	238.3	11.1	21.3	173.1	539.9	699.0	1 228.9	41.6	12.3	319.7
	Maryland	E2	258	57	4.9	85.1	4.0	7.5	57.6	169.2	275.1	443.3	14.2	3.4	87.7
	Massachusetts	E3	443	84	6.2	125.0	4.7	9.2	79.4	238.4	286.8	521.4	10.4	FF	(D)
	Michigan	E2	1 071	171	14.9	256.9	12.1	23.1	180.8	601.5	699.0	1 294.5	45.6	10.7	291.2
	Minnesota	-	572	98	15.5	413.3	12.7	24.6	309.9	1 047.0	1 189.3	2 216.4	(D)	10.2	382.0
	Mississippi	E1	964	207	21.9	352.9	18.6	38.3	271.8	907.6	1 265.4	2 167.1	62.9	19.3	495.0
	Missouri	E2	634	125	9.6	136.0	7.9	14.7	97.3	286.9	314.7	602.3	13.1	8.1	153.1
	Montana	E1	457	68	7.9	167.1	6.9	13.3	137.7	435.7	535.3	969.7	43.1	6.9	163.3

See footnotes at end of table.

Table 2. Industry Group Statistics by State: 1987 and 1982—Con.

[Includes industry groups with 450 manufacturing employees or more. Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes.]

1987 SIC code	Industry group and geographic area	1987											1982	
		All establishments ²		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materials ⁴ (million dollars)	Value of shipments ⁴ (million dollars)	New capital expend- itures (million dollars)	All em- ployees ³ (1,000)	Value added by manu- facture (million dollars)
		Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
		E ¹												
24	Lumber and wood products—Con.													
	Nebraska	E1	92	19	1.8	29.6	1.4	2.8	19.8	59.0	77.8	138.3	1.8	1.7
	Nevada	E3	66	12	.9	16.0	.7	1.3	10.7	37.5	35.3	72.1	1.4	.5
	New Hampshire	E3	372	75	5.8	102.8	4.6	9.4	70.4	221.3	288.6	510.4	11.3	4.8
	New Jersey	E1	344	72	6.4	131.0	4.8	9.4	80.9	252.7	324.9	574.8	7.6	FF
	New Mexico	E3	143	35	2.8	45.5	2.3	4.2	34.0	104.5	147.5	250.6	11.2	2.6
	New York	E3	1 137	222	16.8	298.7	13.4	26.0	205.5	591.1	718.9	1 303.7	33.3	FF
	North Carolina	E1	1 858	462	39.0	607.0	32.2	62.4	435.0	1 316.6	2 017.4	3 323.1	115.8	32.0
	North Dakota	-	33	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3
	Ohio	E2	876	213	17.7	297.2	14.5	27.9	211.5	714.4	887.1	1 593.8	39.4	11.7
	Oklahoma	E1	145	36	2.9	51.2	2.4	5.0	37.7	119.4	170.6	289.1	5.1	3.6
	Oregon	E1	2 110	561	64.6	1 432.0	56.2	112.1	1 182.2	3 385.3	5 674.0	9 062.7	168.2	52.6
	Pennsylvania	E1	1 428	298	28.4	518.7	23.1	45.6	373.8	1 177.3	1 430.7	2 601.3	77.0	17.0
	Rhode Island	E2	69	13	1.1	20.4	.8	1.6	13.8	56.6	37.0	94.4	1.4	1.2
	South Carolina	E1	897	164	15.2	239.6	12.8	25.1	180.7	543.4	1 069.6	1 617.0	51.5	13.0
	South Dakota	E3	65	14	1.5	26.3	1.3	2.4	19.8	75.7	78.9	154.6	4.9	1.6
	Tennessee	E1	831	193	17.9	259.3	15.0	29.9	191.3	612.1	725.8	1 333.0	40.6	14.1
	Texas	E2	1 179	278	29.7	484.1	24.6	49.0	352.2	1 022.4	1 563.1	2 584.0	50.8	33.4
	Utah	E3	158	38	3.0	46.1	2.5	4.8	34.2	85.8	91.9	177.7	6.2	2.5
	Vermont	E2	274	42	3.6	57.9	3.0	5.9	42.9	123.4	156.9	278.3	7.5	3.0
	Virginia	E1	1 199	268	23.9	380.8	19.7	38.3	272.9	942.7	1 312.7	2 239.6	64.1	19.6
	Washington	E1	1 782	385	35.9	804.2	30.8	59.8	643.9	1 869.2	3 161.7	5 033.1	127.6	34.9
	West Virginia	E3	436	62	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.2
	Wisconsin	E1	1 042	193	21.9	375.6	17.8	34.0	275.0	814.6	1 081.5	1 883.6	58.6	18.0
	Wyoming	E3	101	18	1.2	20.0	1.0	1.9	16.3	40.7	69.2	110.3	3.4	EE
241	Logging	E3	11 937	804	85.8	1 517.6	72.2	131.4	1 200.7	4 082.5	6 853.1	10 938.2	349.3	80.8
	Alabama	E4	957	38	5.7	76.6	4.8	8.7	60.7	182.8	366.4	549.4	22.1	5.0
	Alaska	E5	37	15	1.4	48.9	1.3	2.9	41.4	125.6	108.6	234.6	9.6	1.6
	Arkansas	E3	403	27	3.1	41.8	2.7	4.8	34.6	122.6	195.3	316.0	13.2	2.8
	California	E5	525	70	5.2	118.1	4.5	8.3	97.1	285.2	370.6	659.4	(D)	3.9
	Florida	E3	346	25	2.8	47.1	2.2	4.1	34.0	139.3	346.8	486.0	14.6	2.7
	Georgia	E6	796	31	5.2	75.7	4.4	8.0	59.7	202.5	256.8	459.0	18.9	5.4
	Idaho	E3	321	40	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.6
	Kentucky	E6	95	5	.5	5.1	.4	.8	4.0	11.5	20.5	31.7	(D)	.4
	Louisiana	E4	413	15	2.4	36.3	2.1	3.7	28.7	102.1	165.4	287.0	10.7	2.5
	Maine	E2	439	38	4.2	81.1	3.3	6.1	57.8	211.7	340.3	548.2	18.3	4.4
	Michigan	E4	341	10	1.7	21.7	1.4	2.5	16.8	50.6	75.1	124.9	8.2	1.1
	Minnesota	E5	176	4	.8	12.8	.7	1.1	8.8	31.3	77.9	109.2	(D)	.8
	Mississippi	E3	531	26	3.4	45.6	2.7	4.8	33.0	141.5	237.0	376.7	12.3	2.7
	Montana	E4	312	20	1.9	34.4	1.6	2.8	26.4	100.9	145.7	246.4	(D)	1.6
	New Hampshire	E7	130	5	.6	9.7	.5	.9	7.4	22.4	58.8	81.0	2.2	.6
	New York	E6	209	1	.7	10.1	.7	1.2	8.6	23.4	33.0	56.4	(D)	CC
	North Carolina	E3	677	37	4.5	60.6	3.7	6.8	45.7	159.6	338.2	497.4	21.2	4.1
	Ohio	E7	128	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5
	Oregon	E2	1 293	169	13.1	283.3	11.2	20.4	231.1	796.9	1 315.0	2 113.7	48.9	11.3
	Pennsylvania	E6	257	9	1.1	13.9	.9	1.8	11.2	35.0	50.2	85.3	6.8	.9
	South Carolina	E4	559	35	3.6	48.1	2.9	5.3	36.5	124.2	231.5	355.9	15.1	3.3
	Tennessee	E3	126	2	.6	6.6	.5	.8	5.1	56.0	27.7	83.8	(D)	.5
	Texas	E3	297	11	2.0	34.1	1.6	2.9	26.3	97.9	236.9	335.2	(D)	2.1
	Virginia	E6	444	17	2.2	29.0	1.9	3.3	23.7	63.7	92.9	156.5	7.9	2.2
	Washington	E2	957	121	10.2	235.3	8.6	15.7	189.4	662.6	1 246.0	1 916.5	50.0	11.9
	West Virginia	E7	165	1	.7	8.2	.6	.9	6.7	22.9	26.2	49.1	2.9	.8
	Wisconsin	E5	384	6	1.6	19.1	1.4	2.3	15.0	45.5	72.1	117.7	4.6	1.4
242	Sawmills and planing mills	E1	6 712	2 075	180.1	3 296.8	157.2	329.2	2 675.9	7 672.2	11 588.6	19 220.3	581.7	157.7
	Alabama	-	212	100	7.5	117.9	6.5	14.1	91.5	309.7	463.6	771.9	23.9	6.6
	Arizona	E5	17	9	1.0	22.1	1.0	2.0	19.6	42.4	72.7	114.7	(D)	1.3
	Arkansas	-	218	75	7.8	130.9	7.1	21.6	110.2	318.8	423.4	742.6	21.3	7.2
	California	E1	278	145	16.8	404.8	14.7	31.3	339.4	981.3	1 370.5	2 323.8	78.6	14.6
	Colorado	E3	48	6	.7	11.5	.7	1.2	10.1	21.4	27.3	48.2	1.1	.8
	Connecticut	E8	34	5	.5	9.3	.5	.9	7.6	17.4	30.4	48.0	(D)	.3
	Florida	E1	94	29	2.4	41.2	2.1	4.5	32.7	97.0	152.4	252.7	7.1	2.6
	Georgia	-	215	91	8.5	143.7	7.2	15.5	112.7	328.2	640.1	966.3	24.7	7.3
	Idaho	-	100	48	4.6	108.9	4.2	8.6	93.5	228.1	495.5	723.9	34.7	4.8
	Illinois	E2	75	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7
	Indiana	E2	155	43	2.6	41.1	2.2	4.2	30.0	88.9	109.0	194.7	4.8	1.9
	Kentucky	E1	185	62	4.0	55.5	3.4	6.6	44.3	120.8	154.9	275.7	6.7	3.2
	Louisiana	E1	104	41	2.9	46.7	2.5	5.5	38.0	140.8	179.2	320.8	10.8	3.0
	Maine	-	141	43	3.6	63.4	3.0	6.5	48.9	120.8	182.0	298.9	10.9	3.0
	Maryland	E3	58	15	.9	13.7	.8	1.4	10.8	29.2	39.9	68.6	3.2	1.0
	Massachusetts	E4	89	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8
	Michigan	E1	219	34	2.6	40.2	2.2	4.2	30.8	88.7	106.6	195.4	(D)	2.4
	Minnesota	E2	96	15	1.2	18.8	1.0	2.0	15.4	46.6	51.4	98.2	(D)	.8
	Mississippi	E1	213	104	9.0	143.5	8.0	17.3	118.5	401.7	527.7	923.5	31.6	7.5
	Missouri	E1	237	35	3.3	38.8	2.9	5.3	31.6	88.3	89.7	179.6	4.6	2.6
	Montana	-	68	32	3.6	79.9	3.2	6.7	68.9	200.2	257.7	457.8	12.3	2.8
	New Hampshire	E1	83	23	1.3	22.2	1.1	2.2	17.5	45.8	63.9	109.5	4.2	1.5
	New Mexico	E4	27	12	1.0	17.1	.8	1.5	11.9	44.1	59.2	102.6	(D)	.7
	New York	E3	231	51	3.1	55.2	2.7	5.5	42.3	111.5	176.9	285.6	7.9	2.9
	North Carolina	E1	554	175	11.6	166.0	10.0	19.6	128.0	352.9	492.3	849.9	31.7	10.7
	Ohio	E2	172	37	2.8	41.8	2.5	4.9	35.3	101.4	134.3	234.1	(D)	2.3
	Oklahoma	-	30	6	.8	15.3	.7	1.6	12.0	39.6	43.1	83.0	1.1	.7
	Oregon	E1	309	166	19.7	464.4	17.6	36.3	392.5	1 084.7	1 923.7	3 021.2	50.9	17.2
	Pennsylvania	E2	448	80	6.1	92.7	5.2	10.1	71.5	217.8	291.5	491.5	16.9	4.4
	South Carolina	-	125	57	4.4	74.0	3.8	8.0	57.5	188.4	385.1	575.3	21.3	3.7

See footnotes at end of table.

Table 2. Industry Group Statistics by State: 1987 and 1982—Con.

[Includes industry groups with 450 manufacturing employees or more. Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry group and geographic area	1987											1982		
		All establishments ²			All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materials ⁴ (million dollars)	Value of shipments ⁴ (million dollars)	New capital expend- itures (million dollars)	All em- ployees ³ (1,000)	Value added by manu- facture (million dollars)
		E ¹	Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
24	Lumber and wood products—Con.														
242	Sawmills and planing mills—Con.														
	South Dakota	E8	17	6	.5	9.1	.4	.9	7.4	20.7	25.0	45.8	1.4	.5	9.5
	Tennessee	E1	345	80	9.0	133.3	7.8	16.1	102.8	289.7	343.7	632.3	26.9	6.8	129.4
	Texas	E2	116	44	3.3	55.7	2.9	6.1	44.9	130.6	184.4	314.1	(D)	3.3	64.9
	Utah	-	26	7	.5	8.2	.5	1.0	7.2	16.3	20.3	36.2	1.0	.4	6.2
	Vermont	E1	78	18	1.2	17.2	1.0	1.9	13.6	47.4	47.6	92.9	2.5	1.0	21.9
	Virginia	E2	370	112	7.2	102.1	6.2	12.1	80.4	243.0	334.2	576.3	19.5	6.5	118.5
	Washington	E1	381	135	14.1	331.2	12.4	25.0	270.3	736.6	1 211.0	1 942.0	56.6	12.4	359.2
	West Virginia	E2	188	43	2.7	36.2	2.4	4.7	30.4	91.5	116.8	210.8	5.7	2.2	42.2
	Wisconsin	E1	206	46	3.9	62.1	3.3	6.5	48.4	114.2	185.9	296.5	10.8	2.9	69.0
	Wyoming	E2	28	12	.7	13.5	.6	1.2	11.7	27.0	51.6	78.9	1.9	.7	16.3
243	Millwork, plywood, and structural members	E1	7 933	2 326	240.0	4 658.1	196.4	395.9	3 423.9	9 896.3	12 825.8	22 614.1	473.5	165.3	4 460.4
	Alabama	E1	159	65	6.0	98.3	5.1	10.5	74.2	225.5	322.9	549.9	16.2	4.2	117.3
	Arizona	E2	146	54	3.8	63.7	3.0	5.7	43.0	129.1	133.3	259.6	6.9	1.6	46.5
	Arkansas	-	83	30	3.9	76.6	3.4	7.6	63.6	177.5	222.4	399.1	8.7	3.3	72.3
	California	E1	1 145	278	24.2	482.3	19.3	39.4	340.4	934.3	1 259.8	2 178.5	35.2	13.5	399.9
	Colorado	E2	140	29	1.9	36.5	1.4	2.8	23.0	66.4	77.8	143.4	2.1	1.6	47.4
	Connecticut	E1	122	27	1.9	42.4	1.4	2.7	27.1	76.8	63.8	139.8	(D)	1.0	21.8
	Florida	E3	661	163	12.5	192.4	10.0	19.7	135.4	351.1	480.4	829.8	18.9	7.1	143.9
	Georgia	E1	260	60	6.1	107.7	5.1	10.2	79.9	258.2	330.9	586.5	7.9	4.4	119.7
	Idaho	-	66	23	2.6	48.3	2.2	4.6	37.9	110.5	194.4	302.3	7.8	1.9	51.6
	Illinois	E2	224	61	5.3	109.0	4.0	8.3	74.7	226.0	238.4	463.1	8.2	3.2	86.4
	Indiana	E2	213	97	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6.7	181.0
	Iowa	-	54	15	4.3	101.2	3.5	7.2	79.2	231.6	210.7	438.5	16.5	2.8	101.4
	Kansas	E2	70	22	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	28.1
	Kentucky	E1	78	26	2.1	35.3	1.7	3.2	25.2	69.9	81.5	151.1	3.0	1.6	41.0
	Louisiana	-	77	26	4.1	91.5	3.6	8.2	75.3	183.9	316.1	500.5	13.9	3.0	58.1
	Maine	E1	31	9	.9	16.1	.7	1.4	9.8	36.2	30.8	67.1	1.4	.3	8.7
	Maryland	E1	88	20	1.8	31.3	1.4	2.7	19.6	61.0	95.3	156.6	7.3	1.1	30.1
	Massachusetts	E3	172	39	2.7	56.4	2.0	3.8	35.3	112.7	129.1	239.3	4.5	1.6	48.9
	Michigan	E2	192	51	4.5	87.2	3.7	7.2	62.5	205.4	232.5	434.5	9.3	2.7	84.2
	Minnesota	-	165	39	10.0	315.1	8.2	16.1	236.4	787.8	866.8	1 634.7	(D)	5.3	254.8
	Mississippi	-	73	22	2.9	53.3	2.5	5.3	41.9	131.3	184.9	314.5	4.2	2.9	63.8
	Missouri	E1	144	32	2.6	48.8	1.9	3.8	32.2	97.5	86.2	181.2	3.5	1.2	32.0
	Montana	-	30	9	1.8	39.3	1.5	2.8	32.1	91.0	93.1	183.9	(D)	1.7	22.8
	Nebraska	-	47	11	1.0	17.2	.8	1.7	11.1	31.5	40.5	73.6	1.4	.7	19.0
	Nevada	E2	42	8	.6	10.9	.5	.9	7.5	25.4	23.3	48.1	.7	.3	5.1
	New Hampshire	E2	47	13	1.3	24.9	1.0	2.2	15.2	64.2	71.4	135.1	1.8	.7	26.8
	New Jersey	E2	185	47	4.0	87.9	3.1	6.0	54.8	164.6	213.0	375.8	5.5	2.4	62.2
	New Mexico	E3	62	11	.7	10.4	.5	1.0	7.3	23.4	36.2	59.5	.9	.8	31.6
	New York	E3	378	86	6.8	134.0	5.2	10.1	88.5	265.4	271.1	532.9	11.8	4.6	127.3
	North Carolina	E1	294	126	10.6	175.0	8.7	17.3	123.6	360.6	494.9	851.2	27.0	7.1	164.6
	Ohio	E1	225	81	7.5	134.9	6.1	12.1	96.1	327.3	375.0	698.0	13.9	4.0	117.0
	Oklahoma	E2	49	13	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	28.9
	Oregon	E1	298	157	25.6	563.3	22.5	46.1	469.0	1 187.3	2 036.2	3 214.0	55.9	19.4	539.7
	Pennsylvania	E1	315	100	9.8	193.1	7.7	15.7	137.5	422.5	421.7	838.3	22.1	5.9	196.2
	Rhode Island	E4	28	7	.5	9.5	.4	.6	6.3	19.0	14.0	32.9	(D)	.4	7.0
	South Carolina	E1	105	42	4.3	70.4	3.7	7.4	53.0	128.4	240.4	370.0	7.5	3.5	74.2
	South Dakota	-	21	4	.5	7.6	.4	.7	4.9	17.7	13.6	31.2	.8	.3	11.5
	Tennessee	E2	153	46	3.3	48.9	2.7	5.6	34.2	113.4	129.4	242.4	4.5	2.2	43.5
	Texas	E2	412	117	14.0	236.2	11.5	23.3	170.7	474.8	651.4	1 118.8	19.7	14.1	336.1
	Utah	E2	82	23	1.8	28.8	1.5	2.9	20.6	50.5	48.2	99.1	1.2	1.2	23.1
	Vermont	E2	30	6	.8	13.0	.7	1.5	10.4	24.3	38.3	62.6	.8	.7	13.0
	Virginia	-	185	59	6.9	119.8	5.6	11.0	82.4	335.7	418.6	748.7	13.8	4.5	116.3
	Washington	E1	273	84	8.4	178.2	7.3	14.5	145.0	333.3	518.7	853.7	15.0	7.4	196.5
	West Virginia	E2	28	5	.8	10.9	.7	1.2	8.1	20.5	24.9	45.4	(D)	.5	15.9
	Wisconsin	-	206	69	10.7	200.1	8.7	17.2	146.7	419.5	528.8	946.4	22.3	8.4	216.0
244	Wood containers	E1	2 217	561	37.0	483.0	31.2	55.6	345.7	874.9	1 198.4	2 069.4	52.2	35.8	703.0
	Alabama	E3	56	15	1.0	11.6	.9	1.5	9.2	22.9	30.1	53.1	1.2	.7	12.4
	Arkansas	E1	39	13	.8	10.0	.7	1.3	8.5	14.7	27.6	42.6	1.0	1.0	16.5
	California	E1	204	63	4.1	63.9	3.4	6.4	44.4	114.8	173.9	286.0	(D)	3.6	80.1
	Florida	-	37	14	1.0	10.9	.8	1.4	8.1	18.4	35.3	53.5	1.4	.9	19.8
	Georgia	-	69	18	1.7	20.1	1.5	2.8	14.7	36.2	38.3	74.5	1.5	1.9	32.6
	Illinois	E2	73	22	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9	19.2
	Indiana	E1	103	20	1.3	16.3	1.2	2.0	12.6	29.0	37.1	65.9	1.4	1.1	17.9
	Kentucky	E1	71	24	1.4	15.6	1.1	1.9	11.1	33.7	37.2	70.9	2.7	1.7	31.6
	Michigan	E1	144	29	2.0	26.2	1.7	3.1	18.2	55.2	70.6	125.6	(D)	1.5	35.6
	Minnesota	E3	36	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	7.6
	Mississippi	E1	39	16	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	22.1
	Missouri	E2	85	26	1.4	16.9	1.2	2.0	11.7	30.6	43.5	74.5	1.8	1.8	27.7
	New Jersey	E3	46	6	.5	7.2	.4	.7	4.7	14.4	18.4	32.8	.4	.6	11.1
	New York	E1	82	18	1.3	18.1	1.1	2.0	13.4	27.1	38.4	65.5	(D)	1.3	26.6
	North Carolina	E2	80	24	1.9	22.9	1.6	2.8	16.0	38.0	50.0	88.6	(D)	2.1	39.1
	Ohio	E3	172	35	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.8	35.8
	Oregon	E2	28	7	.5	5.7	.3	.5	3.5	9.8	30.5	40.5	(D)	.3	5.6
	Pennsylvania	E2	155	32	1.8	24.8	1.5	2.8	17.9	45.2	72.6	117.7	6.4	1.6	36.2
	South Carolina	E1	38	8	.7	7.3	.6	1.1	5.7	13.1	13.9	27.1	.6	CC	(D)
	Tennessee	E2	87	20	1.4	17.3	1.2	2.2	12.6	31.5	38.4	69.7	(D)	1.4	23.7

See footnotes at end of table.

Table 2. Industry Group Statistics by State: 1987 and 1982—Con.

[Includes industry groups with 450 manufacturing employees or more. Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry group and geographic area	1987											1982		
		All establishments ²		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materials ⁴ (million dollars)	Value of shipments ⁴ (million dollars)	New capital expend- itures (million dollars)	All em- ployees ³ (1,000)	Value added by manu- facture (million dollars)	
		E ¹	Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							Wages (million dollars)
24	Lumber and wood products—Con.														
244	Wood containers— Con.														
	Texas	E1	85	29	2.1	25.8	1.8	3.1	18.2	42.5	56.9	99.1	(D)	1.9	35.6
	Virginia	E1	54	19	1.1	14.6	.9	1.7	10.5	22.9	35.6	58.6	2.0	1.3	23.9
	Washington	-	30	10	.7	11.8	.6	1.0	8.1	19.7	32.6	51.9	1.0	.8	25.3
	Wisconsin	E1	93	33	1.9	27.6	1.6	2.8	19.3	49.3	56.6	105.3	(D)	1.6	31.9
245	Wood buildings and mobile homes	E1	1 084	577	65.3	1 214.5	50.9	97.3	789.1	2 489.0	4 097.0	6 574.7	100.3	59.6	1 740.8
	Alabama	E2	46	30	3.7	62.3	3.1	5.5	42.8	110.5	213.4	323.0	2.8	4.1	92.7
	Arizona	E1	20	14	1.6	30.5	1.3	2.7	20.2	59.8	98.3	157.6	2.1	1.0	34.9
	California	E2	87	48	5.1	102.1	4.0	7.5	64.8	208.3	314.8	521.5	(D)	4.4	120.6
	Colorado	-	11	5	.5	8.4	.4	.8	5.8	15.6	19.5	34.9	.2	.8	21.2
	Delaware	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
	Florida	-	69	45	5.2	101.4	3.9	7.8	63.4	158.3	300.2	459.8	6.1	4.2	120.4
	Georgia	-	53	39	5.1	88.4	4.3	8.4	63.8	164.8	382.1	546.7	6.4	4.6	130.4
	Idaho	-	13	6	.6	10.6	.5	.9	7.2	23.3	43.6	66.3	(D)	1.1	26.8
	Illinois	E2	25	11	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	25.5
	Indiana	E1	55	36	4.8	102.3	3.8	7.6	69.3	216.5	359.9	581.8	5.2	3.6	107.5
	Kansas	-	12	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.5	53.5
	Maine	E1	12	7	.6	10.2	.4	.8	5.2	26.3	34.6	60.9	1.9	.2	7.2
	Maryland	-	13	8	1.1	22.8	.9	1.7	14.6	39.0	77.8	116.8	1.7	.4	13.9
	Massachusetts	E2	16	11	.9	21.6	.6	1.2	10.7	44.3	53.2	97.4	2.0	.3	12.9
	Michigan	E3	34	11	.9	19.0	.6	1.3	11.3	45.8	53.6	98.8	(D)	.5	11.8
	Minnesota	E3	20	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	22.1
	Mississippi	E1	12	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9	25.7
	Missouri	-	21	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	16.6
	Nebraska	-	7	5	.5	9.1	.4	.8	6.3	20.7	29.9	50.4	(D)	.8	25.1
	New Hampshire	E1	20	9	1.1	23.0	.8	1.5	14.0	47.2	49.7	98.4	1.6	.5	12.1
	New York	-	27	12	1.0	20.3	.7	1.4	12.0	41.8	68.4	111.3	4.0	.6	20.5
	North Carolina	E1	51	34	4.5	80.3	3.5	6.7	53.5	161.0	277.3	435.6	(D)	3.1	84.2
	Ohio	E1	36	18	1.6	29.7	1.2	2.3	17.4	64.2	139.9	203.7	(D)	.9	35.8
	Oregon	-	23	14	1.6	26.6	1.3	2.1	18.6	58.4	84.5	142.5	(D)	1.4	43.5
	Pennsylvania	-	72	48	6.8	140.6	5.4	10.6	94.7	314.9	425.6	739.1	15.7	2.6	85.3
	Tennessee	E4	32	20	1.9	32.0	1.4	2.5	20.7	66.7	121.4	187.9	4.2	1.7	33.9
	Texas	E3	74	35	3.8	60.0	3.0	5.6	39.3	115.7	229.1	346.8	(D)	8.5	272.7
	Virginia	-	31	19	2.5	42.2	1.8	3.4	23.7	91.9	116.8	205.4	3.3	2.0	49.7
	Washington	E6	18	6	.5	9.9	.4	.8	7.0	27.0	37.6	63.7	.9	.9	24.8
	Wisconsin	-	34	18	2.0	33.9	1.5	2.5	21.4	91.6	143.5	231.1	(D)	1.4	59.4
249	Miscellaneous wood products	E1	4 104	1 027	90.1	1 536.4	73.4	141.8	1 088.3	3 649.7	4 696.0	8 330.0	268.3	77.1	2 222.6
	Alabama	E1	113	30	2.3	38.2	1.9	3.6	26.4	100.2	211.0	311.1	6.1	1.9	58.4
	Arkansas	E1	84	24	2.3	32.8	2.0	4.1	24.0	69.8	102.4	177.7	15.1	1.7	48.1
	California	E2	432	103	9.2	150.1	7.5	14.1	104.8	323.6	419.6	744.7	22.7	8.4	246.3
	Florida	E2	161	33	1.9	26.5	1.6	2.8	19.2	57.1	96.7	154.4	2.5	1.5	30.6
	Georgia	E2	129	31	3.0	52.3	2.4	5.0	37.7	136.0	199.9	335.4	6.6	2.8	86.0
	Idaho	E2	43	10	.6	10.4	.5	1.0	7.7	33.8	37.3	71.6	1.0	.3	7.6
	Illinois	E2	147	44	3.6	53.4	3.0	5.7	36.4	116.5	123.4	236.3	(D)	4.1	114.0
	Indiana	E1	96	25	1.9	27.8	1.5	2.7	18.6	57.1	70.3	129.6	3.3	1.7	37.1
	Iowa	-	27	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	6.9
	Kentucky	E3	46	9	.7	9.2	.6	1.1	6.1	26.1	37.3	59.8	1.1	.5	18.9
	Louisiana	E1	58	16	1.3	26.0	1.0	2.1	19.0	53.9	87.1	142.2	6.5	1.1	32.7
	Maine	E1	91	37	4.0	64.0	3.4	6.0	49.0	139.7	105.2	242.2	8.7	4.1	78.1
	Maryland	E3	36	10	.8	11.6	.6	1.2	8.3	27.5	42.8	69.9	(D)	.5	16.0
	Massachusetts	E3	93	18	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.8	52.9
	Michigan	E1	141	36	3.1	62.7	2.4	4.8	41.2	155.9	160.5	315.4	19.5	2.4	86.4
	Minnesota	-	79	22	2.2	43.9	1.8	3.3	34.5	134.6	125.5	259.8	(D)	2.2	59.0
	Mississippi	E1	96	33	4.6	85.0	3.8	7.7	58.9	180.9	237.2	422.5	13.7	4.1	145.3
	Missouri	E3	102	27	1.6	21.0	1.4	2.6	15.5	48.7	61.3	110.9	2.3	1.7	32.4
	New Hampshire	E3	72	21	1.3	20.2	1.1	2.2	14.2	38.4	38.2	76.4	1.4	1.2	28.7
	New Jersey	E1	71	15	1.4	24.9	1.0	1.9	15.3	50.7	61.5	111.5	1.2	1.1	35.0
	New Mexico	E1	16	7	.7	12.9	.6	1.1	10.8	24.7	37.7	61.8	2.4	BB	(D)
	New York	E4	210	54	3.8	60.9	3.1	5.8	40.7	121.9	131.1	252.1	4.7	3.6	95.2
	North Carolina	-	202	66	5.9	102.2	4.7	9.1	68.2	244.5	364.7	600.4	(D)	5.0	144.3
	Ohio	E2	143	36	3.2	56.2	2.5	4.6	37.0	145.7	145.6	290.2	(D)	2.2	77.0
	Oklahoma	E2	26	8	.5	7.7	.4	.7	5.6	19.3	24.1	43.6	.7	.6	16.1
	Oregon	E1	159	48	4.1	88.8	3.3	6.6	67.6	248.2	284.1	530.8	11.6	2.9	117.1
	Pennsylvania	E1	181	29	2.9	53.7	2.4	4.7	41.0	141.9	184.4	329.5	9.1	1.7	46.5
	South Carolina	-	66	21	2.1	37.2	1.7	3.2	26.3	83.7	190.1	274.8	6.9	1.6	49.1
	Tennessee	E1	88	25	1.8	21.2	1.6	2.7	15.8	54.8	65.3	117.0	(D)	1.4	26.6
	Texas	E1	195	42	4.6	72.3	3.8	7.9	52.8	160.8	204.4	370.1	10.5	3.5	84.7
	Vermont	E1	38	10	.8	12.3	.6	1.3	8.9	21.2	25.5	46.9	(D)	.8	17.1
	Virginia	-	115	42	4.0	73.1	3.3	6.6	52.2	185.5	314.5	494.2	17.7	3.0	94.6
	Washington	E2	123	29	1.9	37.8	1.5	2.7	24.2	90.1	115.7	205.4	4.0	1.4	48.6
	West Virginia	E2	36	7	.5	6.4	.4	.6	4.4	15.2	27.0	39.6	(D)	.4	9.8
	Wisconsin	E1	119	21	1.8	32.9	1.4	2.7	24.1	94.6	94.6	186.6	(D)	2.3	79.4

See footnotes at end of table.

Table 2. Industry Group Statistics by State: 1987 and 1982—Con.

[Includes industry groups with 450 manufacturing employees or more. Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes.]

1987 SIC code	Industry group and geographic area	1987											1982		
		All establishments ²		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materials ⁴ (million dollars)	Value of shipments ⁴ (million dollars)	New capital expendi- tures (million dollars)	All em- ployees ³ (1,000)	Value added by manu- facture (million dollars)	
		E ¹	Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							Wages (million dollars)
25	Furniture and fixtures -----	E1	11 636	4 072	510.8	9 082.1	409.8	804.8	6 253.1	20 310.4	17 324.0	37 461.9	894.9	436.0	12 828.9
	Alabama -----	E1	219	87	9.7	147.5	8.1	15.4	108.9	373.2	333.1	699.6	19.0	FF	(D)
	Arizona -----	E1	173	36	3.4	48.4	2.8	5.2	33.3	96.5	88.1	184.3	3.3	1.9	45.8
	Arkansas -----	-	129	53	9.7	150.1	7.9	15.7	106.0	335.5	334.4	666.0	8.9	8.6	215.9
	California -----	E1	1 804	673	64.4	1 128.3	51.3	101.4	767.7	2 531.4	2 109.2	4 623.1	86.3	52.6	1 709.7
	Colorado -----	E3	181	36	2.8	48.4	2.1	4.2	31.0	102.2	85.4	186.6	3.6	2.6	69.3
	Connecticut -----	E3	140	42	3.8	75.2	3.0	5.7	47.3	159.6	113.5	272.2	3.7	4.5	154.8
	Delaware -----	-	10	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	11.2
	Florida -----	E3	867	180	15.2	230.3	12.0	23.0	150.2	508.0	426.3	929.1	17.9	11.7	321.0
	Georgia -----	E1	321	119	12.2	191.6	9.9	19.8	131.1	537.7	401.6	934.3	13.7	9.4	267.9
	Illinois -----	E1	466	180	19.6	413.3	14.9	29.3	271.6	923.7	790.8	1 708.1	(D)	18.9	631.5
	Indiana -----	-	314	151	22.8	430.3	17.9	35.9	292.6	892.4	805.9	1 702.0	44.7	20.2	576.3
	Iowa -----	-	66	30	4.2	75.2	2.9	5.7	51.0	232.8	163.8	393.7	(D)	3.5	113.8
	Kansas -----	E1	75	26	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.6	43.2
	Kentucky -----	E1	107	36	3.8	64.1	3.2	6.2	46.2	141.3	127.1	267.2	4.6	2.8	74.3
	Louisiana -----	E2	49	10	.8	12.9	.7	1.4	9.5	33.1	46.8	79.7	.7	CC	(D)
	Maine -----	E1	42	13	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	25.8
	Maryland -----	E2	169	43	3.9	73.8	3.1	6.0	49.0	160.5	150.1	311.1	(D)	3.5	94.3
	Massachusetts -----	E1	297	91	7.5	149.0	5.7	11.4	95.0	314.2	251.4	564.3	(D)	7.0	215.6
	Michigan -----	-	368	161	29.6	798.8	21.1	41.4	488.1	2 044.7	1 453.7	3 487.3	199.1	21.1	1 107.7
	Minnesota -----	E1	190	55	5.8	117.9	4.4	8.3	77.7	255.6	185.3	437.2	8.6	3.8	131.2
	Mississippi -----	-	225	122	21.5	334.3	18.1	34.4	239.2	717.9	786.9	1 499.0	24.6	13.6	369.9
	Missouri -----	-	194	73	9.7	177.4	7.5	14.9	117.2	407.5	411.6	811.1	22.1	7.2	248.9
	Nebraska -----	-	46	11	2.0	41.8	1.4	2.7	24.3	104.9	71.1	172.2	2.9	1.7	62.5
	New Hampshire -----	-	51	16	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.5	47.8
	New Jersey -----	E1	328	118	11.8	231.8	8.9	17.8	151.8	544.0	417.3	958.1	17.7	9.8	301.6
	New York -----	E3	977	274	25.1	473.7	19.4	38.9	316.9	991.3	727.8	1 714.4	27.5	22.9	685.9
	North Carolina -----	-	759	396	82.1	1 294.7	71.5	138.8	1 006.2	2 673.6	2 383.1	4 998.2	112.0	76.3	1 728.7
	Ohio -----	-	357	123	15.2	312.7	11.6	22.6	205.9	747.2	655.3	1 402.8	(D)	13.0	447.8
	Oklahoma -----	E2	77	18	1.5	28.5	1.2	2.4	18.9	60.2	42.8	102.4	1.1	2.1	60.4
	Oregon -----	E3	164	29	2.6	47.9	2.0	3.8	30.2	102.0	82.9	183.8	3.1	1.6	50.4
	Pennsylvania -----	E1	460	181	22.0	427.9	16.8	32.4	276.6	927.8	775.4	1 688.6	38.5	18.9	638.0
	Rhode Island -----	E1	40	15	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	South Carolina -----	E1	85	34	4.6	71.6	3.9	7.7	53.4	152.5	130.5	281.5	8.9	4.3	106.8
	Tennessee -----	-	301	149	24.1	359.8	20.4	40.6	267.8	826.7	820.9	1 648.3	34.9	21.0	516.5
	Texas -----	E2	491	159	15.1	243.2	11.9	23.4	159.7	518.7	514.6	1 031.7	(D)	15.8	441.4
	Utah -----	E2	92	29	2.8	46.5	2.4	4.7	36.0	99.8	71.0	175.6	4.5	2.1	54.9
	Vermont -----	E1	51	19	2.3	37.9	1.8	3.7	29.0	68.0	47.5	114.4	(D)	1.9	38.4
	Virginia -----	-	224	91	23.6	341.9	20.5	40.8	263.8	696.3	642.4	1 338.7	37.2	22.5	471.4
	Washington -----	E2	230	57	3.8	68.8	2.9	5.5	43.6	140.6	115.2	257.2	5.1	2.8	97.8
	West Virginia -----	E2	30	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9	22.5
	Wisconsin -----	E1	235	90	12.0	217.5	9.2	18.7	139.7	529.6	395.5	919.9	23.2	8.9	297.2
251	Household furniture --	E1	5 614	2 074	284.2	4 451.7	240.8	470.6	3 285.3	9 486.1	9 187.6	18 558.6	377.2	263.0	6 455.0
	Alabama -----	E1	123	53	5.4	69.9	4.7	8.5	52.5	156.6	149.7	303.7	5.6	FF	(D)
	Arizona -----	E1	78	20	2.2	26.9	1.9	3.4	19.5	52.5	57.4	109.7	1.9	1.3	27.7
	Arkansas -----	E1	69	27	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5.4	103.5
	California -----	E2	877	369	34.4	538.0	28.8	57.8	386.3	1 180.7	1 174.5	2 342.9	40.6	30.3	873.4
	Colorado -----	E3	83	17	1.1	17.3	.9	1.8	11.9	40.0	37.2	76.8	1.0	1.2	29.4
	Connecticut -----	E2	64	17	1.5	27.5	1.2	2.3	16.8	52.7	49.3	101.9	1.0	1.7	46.1
	Florida -----	E3	416	91	8.0	116.9	6.6	12.7	81.0	268.5	225.2	492.1	8.9	7.0	188.4
	Georgia -----	E1	150	62	5.8	80.5	4.9	9.7	57.7	174.5	200.0	375.1	5.5	5.6	125.0
	Illinois -----	E1	162	58	6.1	104.1	4.9	9.5	68.1	233.0	246.3	474.5	(D)	6.5	180.0
	Indiana -----	-	134	59	10.0	179.1	8.1	16.1	133.9	348.7	390.6	746.4	19.5	11.9	281.2
	Iowa -----	-	29	13	1.7	31.0	1.0	1.9	17.9	50.5	47.5	97.7	(D)	1.5	36.7
	Kansas -----	E1	32	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	11.9
	Kentucky -----	E1	52	15	1.6	21.8	1.4	2.6	16.7	32.2	43.9	75.8	(D)	1.5	39.8
	Louisiana -----	E3	27	7	.6	8.9	.5	1.0	7.0	21.6	21.4	42.9	(D)	.7	17.9
	Maine -----	E1	23	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	16.6
	Maryland -----	E3	67	19	2.2	38.0	1.8	3.3	24.7	86.2	75.1	160.9	(D)	1.8	45.2
	Massachusetts -----	E2	162	52	4.1	70.3	3.3	6.6	48.8	147.6	133.7	278.6	(D)	4.4	107.9
	Michigan -----	E1	130	45	4.5	78.2	3.7	7.2	54.2	174.2	153.4	322.0	(D)	4.1	114.2
	Minnesota -----	E1	64	14	1.3	19.6	1.1	2.0	13.3	49.5	46.1	94.0	(D)	.9	25.5
	Mississippi -----	-	154	90	18.2	285.9	15.5	29.0	204.5	616.6	691.5	1 303.4	22.3	11.9	322.1
	Missouri -----	-	81	30	5.6	100.1	4.6	9.0	72.4	229.9	231.2	459.8	11.4	4.1	134.4
	New Hampshire -----	-	30	9	.9	14.3	.7	1.4	9.6	35.5	34.0	73.7	1.1	1.0	31.0
	New Jersey -----	E1	118	35	3.1	61.8	2.3	4.6	38.1	154.2	145.8	294.6	7.6	3.4	115.7
	New York -----	E3	433	110	10.3	171.8	8.3	16.6	118.8	371.8	302.7	668.0	7.4	8.9	228.0
	North Carolina -----	-	558	327	70.4	1 086.0	62.1	120.5	863.2	2 198.2	2 012.8	4 157.1	89.5	67.4	1 463.1
	Ohio -----	-	137	41	6.8	136.2	5.5	10.4	93.9	330.6	344.2	675.7	(D)	5.8	178.8
	Oklahoma -----	E3	38	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	27.1
	Oregon -----	E3	85	13	1.6	26.1	1.3	2.3	17.5	56.2	51.8	106.5	1.9	1.0	31.0
	Pennsylvania -----	E1	221	88	8.3	135.0	6.8	13.5	96.8	305.0	290.5	592.3	15.0	7.7	200.1
	South Carolina -----	-	42	19	3.1	50.0	2.7	5.4	39.3	105.8	90.3	194.7	7.5	3.4	80.8
	Tennessee -----	-	198	108	18.2	261.4	15.7	31.1	200.3	539.4	540.9	1 080.5	(D)	16.2	377.7

See footnotes at end of table.

Table 2. Industry Group Statistics by State: 1987 and 1982—Con.

[Includes industry groups with 450 manufacturing employees or more. Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes.]

1987 SIC code	Industry group and geographic area	1987											1982		
		All establishments ²		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materials ⁴ (million dollars)	Value of shipments ⁴ (million dollars)	New capital expend- itures (million dollars)	All em- ployees ³ (1,000)	Value added by manu- facture (million dollars)	
		E ¹	Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							Wages (million dollars)
25	Furniture and fixtures—Con.														
252	Office furniture—Con.														
	Georgia	-	23	11	1.9	32.0	1.4	2.9	20.4	169.2	65.5	234.8	1.8	53.7	
	Illinois	E1	36	16	2.9	79.3	2.1	3.7	53.6	176.4	105.0	282.6	(D)	2.3	
	Indiana	-	41	31	5.4	97.9	4.4	9.0	70.4	241.2	167.4	409.5	9.8	135.8	
	Iowa	-	9	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	
	Kentucky	-	8	6	1.1	19.7	.9	1.8	13.7	71.6	41.0	112.7	1.4	19.6	
	Massachusetts	-	17	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	
	Michigan	-	57	38	18.3	568.7	12.4	24.2	339.2	1 483.9	751.8	2 230.4	(D)	11.7	
	Minnesota	E2	21	9	.9	17.2	.7	1.4	12.0	44.8	28.4	73.7	(D)	.5	
	Mississippi	-	8	6	1.2	17.9	1.0	2.0	12.6	31.6	30.2	60.9	(D)	BB	
	Missouri	-	14	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	
	New Jersey	-	26	15	2.7	46.8	2.0	4.0	29.1	91.3	68.8	160.3	3.1	1.8	
	New York	E2	86	36	4.7	93.6	3.4	6.5	56.9	200.4	113.7	311.4	8.7	3.9	
	North Carolina	-	59	36	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5.7	
	Ohio	-	24	13	2.4	56.2	1.7	3.4	37.6	166.9	87.8	256.5	3.3	1.9	
	Pennsylvania	-	41	20	5.1	109.0	3.9	7.0	75.1	256.9	181.4	431.6	11.2	4.5	
	Tennessee	-	10	5	1.5	26.2	1.3	2.6	20.1	82.6	86.5	169.3	3.3	.9	
	Texas	-	43	16	2.0	36.0	1.5	3.0	22.6	83.9	60.6	143.1	(D)	1.6	
	Virginia	-	7	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	
	Washington	E3	29	13	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	
	Wisconsin	-	21	12	1.7	36.5	1.2	2.4	20.2	107.3	68.3	175.6	(D)	1.3	
253	Public building and related furniture	E1	491	209	21.8	396.8	16.6	33.0	259.1	901.1	1 191.3	2 088.3	45.0	18.8	578.8
	Alabama	E1	14	7	.5	7.3	.4	.8	5.2	18.3	16.3	34.4	.6	.3	5.9
	Arkansas	-	13	7	1.9	37.0	1.4	2.9	23.0	95.0	76.1	169.9	1.6	1.6	57.9
	California	-	48	24	2.7	46.6	2.1	4.0	31.0	91.3	118.3	208.5	(D)	1.4	38.2
	Connecticut	E1	5	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Illinois	E1	21	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8	29.3
	Indiana	E2	40	19	2.1	32.9	1.7	3.4	24.4	55.9	70.6	126.2	3.8	.7	17.0
	Iowa	E2	6	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	15.7
	Michigan	-	37	22	2.1	42.5	1.6	3.2	29.0	116.6	316.9	433.0	(D)	1.9	77.4
	Minnesota	-	8	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	25.0
	Missouri	-	8	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	19.3
	North Carolina	E2	20	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	35.1
	Ohio	E2	20	8	.8	14.4	.6	1.3	8.8	27.0	23.5	50.5	(D)	.7	22.9
	Pennsylvania	E4	18	7	.8	12.7	.5	1.0	7.8	22.7	28.1	49.8	.9	.5	11.3
	Tennessee	-	14	9	.8	13.9	.6	1.3	9.0	40.8	61.8	103.3	1.9	1.0	18.5
	Texas	E2	39	17	1.6	24.0	1.2	2.5	14.7	49.5	50.7	99.0	(D)	1.8	44.4
	Wisconsin	-	10	6	.7	14.6	.5	1.0	8.5	26.9	18.2	45.1	(D)	.8	22.6
254	Partitions and fixtures	E1	2 459	856	74.1	1 552.1	54.8	110.2	997.6	3 111.8	2 450.0	5 537.2	124.9	59.7	2 079.5
	Alabama	E1	25	10	1.6	28.8	1.2	2.6	19.6	71.3	73.2	142.4	3.5	1.1	34.0
	Arkansas	-	17	8	1.5	25.7	1.2	2.4	17.2	44.1	31.4	81.4	(D)	EE	(D)
	California	E2	393	129	9.0	206.3	6.6	13.0	131.4	383.9	259.2	637.3	13.2	7.5	265.4
	Colorado	E5	39	8	.7	14.4	.6	1.1	9.2	26.1	19.9	46.2	1.1	.7	17.3
	Connecticut	E3	33	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	Florida	E4	120	30	2.4	40.8	1.8	3.7	26.0	80.0	55.8	134.7	3.3	1.6	47.7
	Georgia	E1	65	26	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.5	46.3
	Illinois	E1	163	69	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5.9	233.3
	Indiana	-	61	22	2.6	52.8	1.9	3.8	35.2	84.5	83.3	165.7	(D)	1.9	50.9
	Maryland	E4	44	11	.7	14.9	.5	1.1	10.6	26.4	17.0	43.4	(D)	.4	11.2
	Massachusetts	E1	63	19	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	33.0
	Michigan	E1	97	40	3.0	70.7	2.1	4.3	41.6	144.9	114.8	259.7	(D)	2.5	96.9
	Minnesota	-	67	20	2.5	58.3	1.9	3.5	40.4	120.4	77.5	194.9	(D)	1.4	50.3
	Mississippi	-	10	7	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	16.0
	Missouri	E1	54	21	1.6	31.4	1.1	2.2	18.6	71.2	50.1	117.7	3.1	1.0	29.7
	Nebraska	-	9	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	New Jersey	E1	94	42	3.4	75.6	2.5	4.9	47.9	149.2	141.3	285.8	4.2	2.3	69.3
	New York	E3	236	90	7.1	153.0	5.5	11.4	106.0	297.3	213.2	515.0	8.2	6.7	229.2
	North Carolina	-	44	17	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	34.5
	Ohio	E1	130	48	4.0	79.7	2.9	5.8	50.1	164.1	148.5	311.3	(D)	3.9	158.2
	Oklahoma	-	16	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	26.0
	Oregon	E1	34	9	.5	9.9	.3	.6	5.2	18.7	11.9	30.5	.6	.2	6.2
	Pennsylvania	E1	113	49	5.4	126.8	3.7	7.4	73.5	262.0	179.7	440.0	9.5	5.0	196.2
	Rhode Island	E1	18	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
	South Carolina	E3	13	6	.7	11.2	.5	.9	5.9	20.2	15.5	36.0	.7	.5	16.6
	Tennessee	-	39	12	1.2	20.1	.9	1.7	13.1	57.1	37.3	94.1	(D)	1.5	45.8
	Texas	E1	103	38	2.9	51.8	2.1	4.2	33.4	87.5	95.0	184.5	(D)	2.6	82.1
	Virginia	E2	41	12	1.0	16.2	.8	1.5	11.0	29.5	31.4	61.7	1.7	.9	21.7
	Washington	E1	50	14	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	15.2
	Wisconsin	E1	63	27	2.0	35.6	1.5	2.9	22.0	66.1	51.5	117.5	3.6	1.2	41.9
259	Miscellaneous furniture and fixtures	E2	2 088	494	49.9	891.9	37.5	73.1	555.8	2 070.2	1 678.1	3 740.1	65.5	35.8	1 238.7
	Alabama	E4	40	11	.7	8.3	.5	.9	5.1	15.5	11.5	27.0	.5	.2	4.7
	California	E2	294	68	8.2	134.4	6.3	11.7	84.3	293.9	245.0	543.6	(D)	4.8	148.0
	Colorado	E2	32	7	.5	9.2	.4	.8	6.2	19.7	19.7	39.0	.5	.3	8.0
	Connecticut	E6	28	10	.6	10.9	.4	.8	6.5	24.7	18.8	43.2	.5	.7	21.1
	Florida	E3	244	44	3.5	50.6	2.5	4.7	30.1	109.6	109.6	217.1	3.5	2.1	63.0
	Georgia	E1	65	18	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	41.8
	Illinois	E1	84	27	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.4	110.5
	Indiana	-	38	20	2.8	67.5	1.7	3.4	28.6	162.0	94.1	254.3	(D)	1.9	91.4
	Kentucky	E3	19	6	.7	14.3	.6	1.1	10.5	22.8	31.1	53.1	1.5	AA	(D)
	Maryland	E4	38	6	.5	9.0	.4	.7	5.6	19.1	13.9	32.9	(D)	1.2	34.0

See footnotes at end of table.

Table 2. Industry Group Statistics by State: 1987 and 1982—Con.

[Includes industry groups with 450 manufacturing employees or more. Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry group and geographic area	1987											1982		
		All establishments ²			All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materials ⁴ (million dollars)	Value of shipments ⁴ (million dollars)	New capital expend- itures (million dollars)	All em- ployees ³ (1,000)	Value added by manu- facture (million dollars)
		E ¹	Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
25	Furniture and fixtures—Con.														
259	Miscellaneous furniture and fixtures—Con.														
	Massachusetts	E3	43	11	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	20.9
	Michigan	-	47	16	1.7	38.7	1.2	2.5	24.1	125.1	116.8	242.2	(D)	1.0	90.1
	Minnesota	E1	30	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	10.1
	Mississippi	E2	49	17	1.2	15.6	.9	1.9	10.6	34.0	32.9	66.6	.9	.5	7.5
	Missouri	E1	37	13	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8	35.1
	New Jersey	E2	82	23	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.0	65.6
	New York	E4	207	33	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.2	97.0
	North Carolina	E8	78	11	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	17.2
	Ohio	E2	46	13	1.2	26.1	.8	1.7	15.4	58.5	51.3	109.0	(D)	.7	25.1
	Pennsylvania	E1	67	17	2.3	44.4	1.8	3.5	23.5	81.2	95.7	174.9	2.0	1.2	47.0
	Rhode Island	-	8	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	South Carolina	-	24	7	.7	9.7	.6	1.2	7.5	24.3	23.3	47.3	(D)	BB	(D)
	Tennessee	-	40	15	2.4	38.2	1.9	3.9	25.3	106.9	94.4	201.2	(D)	1.4	40.0
	Texas	E3	107	25	1.9	29.9	1.5	2.9	20.3	77.1	56.3	132.8	(D)	1.4	49.5
	Utah	E2	18	6	.8	13.3	.7	1.5	10.2	23.6	19.2	47.2	(D)	CC	(D)
	Virginia	E4	34	5	.5	10.4	.4	.7	6.5	20.2	14.5	34.7	(D)	.4	13.5
	Washington	E1	38	8	.6	11.1	.4	.8	6.5	25.3	20.3	46.4	.7	.4	16.6
	Wisconsin	E1	34	10	2.2	41.6	1.6	2.8	26.4	102.9	80.3	183.3	3.8	1.8	66.2
26	Paper and allied products	-	6 292	4 144	611.3	16 859.8	465.7	972.1	11 776.2	50 488.8	58 753.1	108 988.7	5 752.5	605.6	33 375.7
	Alabama	-	94	63	18.4	617.6	14.3	30.4	463.9	2 610.2	2 051.2	4 662.6	209.5	(NA)	(NA)
	Alaska	-	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Arizona	-	33	16	1.7	42.4	1.3	2.7	29.5	144.3	176.6	320.3	14.2	(NA)	(NA)
	Arkansas	-	77	57	12.6	371.7	10.2	21.4	289.4	1 144.4	1 316.8	2 461.9	185.6	(NA)	(NA)
	California	-	624	365	36.5	999.7	27.9	58.4	703.2	2 800.0	3 984.0	6 743.6	254.4	(NA)	(NA)
	Colorado	-	53	30	2.5	56.9	1.8	3.6	36.2	138.2	198.3	333.7	16.6	(NA)	(NA)
	Connecticut	-	97	67	7.3	192.9	5.5	11.6	132.3	653.6	589.8	1 223.5	59.7	(NA)	(NA)
	Delaware	-	15	13	1.7	42.8	1.3	3.0	29.9	205.6	126.1	327.4	(D)	(NA)	(NA)
	Florida	-	181	92	14.1	395.7	11.1	24.4	292.2	1 140.1	1 639.1	2 791.8	374.2	(NA)	(NA)
	Georgia	-	207	150	28.8	846.1	21.5	46.0	577.7	2 872.4	3 471.8	6 336.0	445.0	(NA)	(NA)
	Idaho	-	9	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Illinois	-	401	288	32.3	787.5	24.4	52.2	513.4	1 987.9	2 444.1	4 419.9	(D)	(NA)	(NA)
	Indiana	-	172	122	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Iowa	-	50	36	5.2	126.4	4.0	8.2	87.7	397.8	499.1	896.8	22.1	(NA)	(NA)
	Kansas	-	54	36	4.5	102.1	3.2	6.7	64.7	388.6	419.9	815.4	(D)	(NA)	(NA)
	Kentucky	-	65	52	6.9	175.0	5.4	11.1	123.9	653.5	769.0	1 421.1	(D)	(NA)	(NA)
	Louisiana	-	50	40	10.3	342.4	8.0	17.0	252.6	1 513.3	1 420.0	2 938.1	207.2	(NA)	(NA)
	Maine	-	37	30	16.2	551.1	12.7	26.9	411.3	1 474.6	1 807.0	3 293.6	301.3	(NA)	(NA)
	Maryland	-	82	49	9.3	227.1	7.0	13.9	153.3	555.1	534.7	1 087.2	100.4	(NA)	(NA)
	Massachusetts	E1	271	195	23.0	559.5	16.6	34.5	353.5	1 162.9	1 511.3	2 673.6	85.1	(NA)	(NA)
	Michigan	-	232	150	20.6	602.7	15.2	32.5	417.4	1 684.5	1 972.3	3 646.8	(D)	(NA)	(NA)
	Minnesota	-	107	66	14.0	406.7	11.1	22.6	295.7	1 351.3	1 269.9	2 610.1	394.8	(NA)	(NA)
	Mississippi	-	59	39	7.9	228.5	6.2	14.0	168.3	805.1	920.4	1 717.8	106.7	(NA)	(NA)
	Missouri	-	134	98	12.6	298.6	9.9	19.8	212.3	910.5	1 150.2	2 033.6	117.9	(NA)	(NA)
	Montana	-	4	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Nebraska	-	17	12	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	New Hampshire	-	41	29	5.6	153.7	4.1	8.2	94.3	408.0	497.0	909.4	35.6	(NA)	(NA)
	New Jersey	E1	337	230	24.8	638.9	17.8	37.0	384.0	1 517.2	1 696.1	3 207.9	102.9	(NA)	(NA)
	New York	E1	596	342	40.0	952.9	30.6	63.1	629.6	2 156.4	2 636.8	4 793.2	218.5	(NA)	(NA)
	North Carolina	-	201	141	21.8	608.8	17.0	35.8	438.9	1 780.6	1 935.9	3 710.9	164.9	(NA)	(NA)
	Ohio	-	382	240	30.0	811.2	22.5	48.3	557.8	1 852.7	2 531.9	4 383.9	173.1	(NA)	(NA)
	Oklahoma	-	42	23	3.6	95.7	2.9	5.8	74.1	431.7	478.5	909.9	21.2	(NA)	(NA)
	Oregon	-	65	40	7.4	266.6	5.8	11.8	202.2	1 156.6	1 111.1	2 267.4	124.2	(NA)	(NA)
	Pennsylvania	-	367	258	37.8	1 018.5	28.2	59.5	697.6	2 980.5	3 639.8	6 608.0	275.6	(NA)	(NA)
	Rhode Island	E2	48	26	2.0	38.6	1.6	3.2	26.7	80.1	88.3	167.4	4.3	(NA)	(NA)
	South Carolina	-	82	58	13.1	386.4	10.4	21.7	284.4	1 665.6	1 507.8	3 150.9	139.1	(NA)	(NA)
	South Dakota	-	8	4	.5	9.0	.4	.7	6.1	29.8	33.1	62.2	(D)	(NA)	(NA)
	Tennessee	-	160	120	18.2	458.1	14.2	29.6	327.4	1 585.8	1 679.6	3 249.6	116.1	(NA)	(NA)
	Texas	-	296	183	23.5	578.8	18.0	36.6	395.3	1 761.6	2 123.3	3 859.1	182.4	(NA)	(NA)
	Utah	-	21	10	1.1	23.1	1.0	1.9	17.5	63.3	101.7	165.2	3.3	(NA)	(NA)
	Vermont	-	19	13	2.2	49.6	1.8	3.5	37.1	169.4	181.1	352.3	(D)	(NA)	(NA)
	Virginia	-	104	79	14.5	419.9	10.9	22.7	290.3	1 271.9	1 364.9	2 623.2	114.5	(NA)	(NA)
	Washington	-	109	74	16.0	552.3	12.5	25.1	420.4	1 778.7	2 193.7	3 980.8	217.0	(NA)	(NA)
	West Virginia	E2	20	15	1.3	24.0	1.0	2.0	15.9	58.3	61.9	117.2	(D)	(NA)	(NA)
	Wisconsin	-	239	176	43.3	1 334.3	32.6	67.1	947.3	3 882.6	4 972.7	8 820.3	388.4	(NA)	(NA)
261	Pulp mills	-	39	38	14.2	535.1	11.0	23.9	396.8	2 281.4	2 019.4	4 313.7	231.2	16.7	1 113.8
	Alabama	-	3	3	1.3	49.3	1.0	2.3	38.4	310.6	280.8	591.6	(D)	CC	(D)
	Alaska	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	California	-	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	Florida	-	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Georgia	-	4	4	2.5	100.9	2.0	4.5	71.0	404.7	345.5	755.0	46.7	3.1	190.0
	Maine	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Mississippi	-	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	North Carolina	-	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Washington	-	5	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.1	128.8
	Wisconsin	-	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
262	Paper mills	-	282	276	129.1	4 597.0	99.2	210.4	3 403.0	14 024.3	14 856.0	28 918.0	2 759.9	129.0	8 954.1
	Alabama	-	5	5	8.7	331.9	6.9	14.3	255.5	1 269.2	805.7	2 082.3	111.1	9.7	867.7
	Arizona	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	Arkansas	-	4	4	3.8	147.2	3.1	6.3	119.6	450.2	446.4	903.6	92.9	EE	(D)
	California	-	8	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Connecticut	-	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)

See footnotes at end of table.

Table 2. Industry Group Statistics by State: 1987 and 1982—Con.

[Includes industry groups with 450 manufacturing employees or more. Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry group and geographic area	1987											1982		
		All establishments ²		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materials ⁴ (million dollars)	Value of shipments ⁴ (million dollars)	New capital expend- itures (million dollars)	All em- ployees ³ (1,000)	Value added by manu- facture (million dollars)	
		E ¹	Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							Wages (million dollars)
26	Paper and allied products—Con.														
262	Peper mills—Con.														
	Florida	-	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)	
	Georgia	-	6	6	2.9	104.9	2.2	4.7	75.0	473.3	429.4	900.1	215.6	FF	(D)
	Kentucky	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	Louisiana	-	7	7	4.1	155.9	3.3	6.8	119.4	731.0	635.2	1 370.8	112.5	3.6	294.1
	Maine	-	13	13	12.6	460.3	9.8	20.6	341.0	1 228.3	1 504.3	2 741.8	(D)	12.9	842.8
	Maryland	-	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Massachusetts	-	29	28	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5.5	249.7
	Michigan	-	20	19	7.2	249.9	5.4	12.0	184.0	679.6	810.6	1 486.9	130.8	6.8	346.3
	Minnesota	-	8	8	4.6	164.6	3.9	7.7	129.3	466.5	450.0	917.9	(D)	4.4	274.1
	Mississippi	E1	5	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	New Hampshire	-	10	10	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.6	111.8
	New Jersey	-	6	6	1.7	61.0	1.3	2.9	44.3	171.3	164.6	336.5	10.8	1.8	142.2
	New York	-	34	34	7.6	246.7	5.8	12.4	167.3	613.6	817.4	1 435.0	105.9	7.7	415.0
	North Carolina	-	3	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6.5	414.5
	Ohio	-	14	14	6.9	241.3	5.4	12.5	185.3	543.2	712.6	1 261.9	80.1	7.0	376.2
	Oklahoma	E1	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
	Oregon	-	6	6	2.5	105.3	2.1	4.2	85.2	441.9	431.0	873.5	38.5	3.3	279.1
	Pennsylvania	-	15	15	7.3	239.6	5.1	10.9	165.5	658.1	780.1	1 432.6	138.3	7.6	574.7
	South Carolina	-	5	5	2.8	105.2	2.0	4.7	75.0	537.9	466.1	1 005.5	52.3	CC	(D)
	Tennessee	-	4	4	2.9	118.2	2.3	5.0	91.7	431.9	336.0	766.4	42.2	3.0	320.6
	Texas	-	5	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	Vermont	-	6	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	Virginia	-	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Washington	-	12	12	6.6	262.1	5.3	10.4	203.8	933.7	970.1	1 911.3	114.6	6.8	454.4
	Wisconsin	-	35	35	18.9	647.5	14.5	30.5	474.9	1 536.8	2 164.7	3 713.3	213.2	18.1	1 341.1
263	Paperboard mills	-	205	200	52.3	1 858.8	40.1	88.5	1 377.3	6 914.3	6 839.7	13 729.7	772.6	55.6	3 739.8
	Alabama	-	8	8	3.8	141.5	2.8	6.7	102.9	613.8	549.8	1 161.2	(D)	3.9	318.4
	Arkansas	-	3	3	2.0	79.6	1.6	3.6	61.0	281.6	305.4	586.9	(D)	3.1	275.7
	California	-	16	15	2.0	72.9	1.5	3.4	55.8	226.9	372.5	600.2	21.4	2.3	156.2
	Connecticut	-	5	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	Florida	-	5	5	2.6	90.4	2.1	4.9	75.0	370.5	457.6	830.2	41.1	FF	(D)
	Georgia	-	12	12	6.0	226.1	4.2	9.7	151.2	813.3	864.3	1 673.8	72.1	5.9	463.4
	Ideho	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	Illinois	-	7	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9	56.3
	Indiana	-	8	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	83.8
	Louisiana	-	5	5	2.5	99.2	1.9	4.1	73.1	582.6	394.5	977.3	77.4	2.8	245.4
	Massachusetts	-	4	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	26.5
	Michigan	-	14	14	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.6	115.0
	Minnesota	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	Mississippi	-	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Montana	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	New Jersey	E1	9	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9	36.8
	New York	-	11	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	North Carolina	-	4	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
	Ohio	-	15	15	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.3	143.8
	Oklahoma	-	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	Oregon	-	5	5	1.9	77.6	1.5	2.9	57.5	382.3	347.2	727.1	73.5	2.0	159.2
	Pennsylvania	-	15	14	1.5	42.4	1.2	2.8	32.5	93.2	112.9	207.7	5.2	EE	(D)
	South Carolina	-	4	4	2.3	85.4	1.7	3.7	61.0	334.8	284.2	616.9	(D)	3.3	151.8
	Tennessee	-	6	6	1.1	42.8	.9	2.1	35.0	225.1	173.6	394.6	(D)	EE	(D)
	Texas	-	5	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	Virginia	-	9	9	4.5	162.5	3.2	7.1	111.4	532.4	464.1	985.2	59.5	4.4	345.9
	Washington	-	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Wisconsin	-	6	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
265	Paperboard containers and boxes	-	2 779	1 991	193.5	4 617.7	147.3	304.2	3 054.8	9 820.6	16 138.1	25 862.6	789.1	187.5	7 395.8
	Aleabama	-	41	28	2.2	43.2	1.8	3.5	29.7	95.2	175.6	269.9	(D)	EE	(D)
	Arizona	E1	15	7	.5	11.4	.4	.8	7.3	29.8	50.0	79.8	(D)	.4	18.9
	Arkansas	-	37	26	3.1	67.8	2.5	5.2	50.9	170.1	273.9	440.4	(D)	FF	(D)
	California	-	258	171	17.1	474.1	13.0	27.2	325.1	1 051.4	1 928.4	2 969.8	81.6	15.4	762.8
	Colorado	-	26	17	1.4	33.3	1.0	2.0	20.0	73.8	129.6	201.9	5.1	1.2	54.7
	Connecticut	E1	50	42	3.3	78.1	2.4	5.2	48.4	153.6	195.0	347.4	13.6	3.4	115.8
	Delaware	E1	9	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	Florida	E1	76	42	4.1	91.3	3.1	6.7	61.5	198.9	386.0	580.8	(D)	3.9	148.3
	Georgia	-	99	73	7.6	183.9	5.7	11.9	120.3	393.9	762.0	1 151.9	39.3	6.7	297.7
	Illinois	E1	198	154	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	16.2	635.1
	Indiana	E1	93	68	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5.5	200.3
	Iowe	-	22	18	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.0	78.3
	Kansas	-	21	17	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Kentucky	-	30	27	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.6	100.1
	Louisiane	-	19	15	1.8	44.8	1.4	3.1	31.5	103.9	212.3	316.8	9.0	EE	(D)
	Maine	-	10	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	Maryland	-	44	31	6.1	129.4	4.6	8.8	84.6	253.0	299.9	546.9	(D)	6.3	202.7
	Massachusetts	E1	97	80	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	7.7	260.3
	Michigan	-	113	78	6.3	155.8	4.6	9.4	97.0	307.4	563.4	866.3	(D)	5.6	238.9
	Minnesota	-	44	33	3.7	97.1	2.8	5.5	64.9	219.0	355.4	565.6	(D)	FF	(D)
	Mississippi	-	24	18	1.8	41.8	1.4	3.0	28.5	93.1	162.9	254.0	9.9	EE	(D)
	Missouri	E1	77	60	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	Nebraska	-	8	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	New Hampshire	E3	9	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	19.1
	New Jersey	E1	145	102	10.0	245.8	7.6	15.6	157.1	475.5	645.1	1 123.3	31.2	10.7	400.3

See footnotes et end of table.

Table 2. Industry Group Statistics by State: 1987 and 1982—Con.

[Includes industry groups with 450 manufacturing employees or more. Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry group and geographic area	1987											1982		
		All establishments ²		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materials ⁴ (million dollars)	Value of shipments ⁴ (million dollars)	New capital expend- itures (million dollars)	All em- ployees ³ (1,000)	Value added by manu- facture (million dollars)	
		E ¹	Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							Wages (million dollars)
26	Paper and allied products—Con.														
265	Paperboard containers and boxes—Con.														
	New York	E1	198	124	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	14.6	488.0	
	North Carolina	-	100	81	8.0	182.5	6.2	13.4	121.4	420.3	638.1	1 051.0	34.8	6.8	252.3
	Ohio	E1	198	136	12.0	291.7	9.2	19.3	196.4	603.6	1 051.2	1 650.0	44.5	11.5	429.3
	Oklahoma	E2	17	11	.9	19.1	.7	1.3	12.9	40.9	70.4	110.9	(D)	.8	28.2
	Oregon	-	18	12	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	Pennsylvania	E1	184	134	12.8	301.0	9.8	20.1	198.4	648.7	1 002.0	1 648.7	41.5	12.7	502.2
	Rhode Island	E2	28	19	1.3	24.4	1.1	2.2	16.8	44.3	48.4	92.6	2.8	1.3	33.0
	South Carolina	-	41	34	3.8	89.8	3.0	6.6	65.4	194.2	340.4	531.9	(D)	FF	(D)
	Tennessee	-	86	62	5.2	113.5	4.1	8.4	75.5	263.4	484.5	746.9	34.3	4.7	167.5
	Texas	-	132	88	7.6	164.1	5.8	12.0	107.6	370.5	645.8	1 005.1	43.5	7.5	313.4
	Virginia	-	55	40	4.2	103.0	3.2	6.6	69.4	214.1	378.4	591.2	22.3	3.6	133.1
	Washington	-	34	32	2.4	68.4	1.8	3.6	47.6	132.4	319.5	451.1	(D)	EE	(D)
	Wisconsin	-	80	58	6.8	174.6	5.1	10.1	115.8	370.6	592.3	961.8	28.3	6.5	259.1
267	Miscellaneous converted paper products	-	2 987	1 639	222.2	5 251.1	168.2	345.1	3 544.3	17 448.3	18 900.0	36 164.8	1 199.7	213.3	12 014.1
	Alabama	-	37	19	2.3	51.6	1.9	3.6	37.4	321.3	239.2	557.5	(D)	2.3	380.4
	Arizona	E1	16	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
	Arkansas	-	33	24	3.8	77.1	3.1	6.2	57.9	242.5	291.1	531.0	40.4	3.4	265.4
	California	E1	339	169	15.2	369.3	11.6	24.1	257.2	1 182.6	1 303.6	2 462.1	97.9	15.6	860.0
	Colorado	E1	26	12	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	Connecticut	-	38	16	2.3	65.1	1.8	3.7	48.4	302.7	220.3	505.6	(D)	1.7	205.6
	Delaware	-	4	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Florida	-	96	41	4.4	94.3	3.6	7.7	69.9	213.8	393.7	609.6	(D)	4.6	169.4
	Georgia	-	86	55	9.7	230.3	7.4	15.1	160.2	787.2	1 070.6	1 855.2	71.2	8.6	526.8
	Idaho	-	3	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	Illinois	-	194	125	15.7	368.4	11.7	24.6	236.8	1 085.1	1 137.0	2 207.2	57.3	14.6	770.3
	Indiana	-	70	45	6.1	140.1	4.3	9.2	91.8	395.3	430.9	813.2	35.3	5.4	257.0
	Iowa	-	26	16	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.3	138.2
	Kansas	-	32	18	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.1	119.9
	Kentucky	-	31	21	3.3	68.1	2.8	5.7	53.5	277.9	328.3	601.4	(D)	EE	(D)
	Louisiana	-	19	13	1.9	42.4	1.5	2.9	28.6	95.8	178.0	273.2	8.4	1.9	73.1
	Maine	-	11	8	2.5	56.4	1.9	4.4	44.8	170.0	131.5	303.4	(D)	2.4	127.1
	Maryland	E3	34	14	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Massachusetts	E1	141	83	10.7	244.6	7.4	14.9	143.0	545.5	635.5	1 191.7	30.9	12.6	521.7
	Michigan	-	84	38	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.9	292.1
	Minnesota	-	54	24	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.9	330.3
	Mississippi	-	25	13	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.9	98.3
	Missouri	-	56	37	6.7	162.8	5.4	10.9	120.4	605.8	669.2	1 255.3	101.2	6.4	406.5
	New Hampshire	-	18	11	2.3	67.5	1.6	3.3	39.1	194.2	232.0	430.3	(D)	3.3	184.7
	New Jersey	E1	176	112	12.3	309.5	8.3	17.1	166.2	808.9	806.4	1 605.5	54.8	13.0	612.9
	New York	E1	353	174	19.1	403.5	14.5	29.9	265.7	959.8	1 076.4	2 033.0	82.0	17.6	681.6
	North Carolina	-	91	50	5.6	116.6	4.4	9.0	84.3	422.8	569.2	989.2	33.3	FF	(D)
	Ohio	-	153	73	9.0	212.1	6.2	12.4	124.5	505.7	568.4	1 071.1	39.1	9.9	385.5
	Oklahoma	-	20	7	1.5	33.2	1.3	2.5	27.2	140.5	174.2	314.0	6.6	CC	(D)
	Oregon	-	35	16	1.9	54.5	1.5	3.1	40.6	244.9	201.2	448.4	(D)	2.4	134.4
	Pennsylvania	-	153	95	16.3	435.5	12.2	25.7	301.1	1 580.6	1 744.7	3 319.0	90.7	15.2	1 094.7
	Rhode Island	E1	20	7	.6	14.2	.5	1.0	9.9	35.8	39.9	74.8	1.5	.9	39.6
	South Carolina	-	32	15	4.3	106.0	3.6	6.7	83.0	598.7	417.2	996.7	23.8	4.1	270.7
	Tennessee	-	61	45	8.5	168.8	6.6	13.4	115.1	621.2	637.5	1 253.7	(D)	7.5	408.1
	Texas	-	154	85	10.2	215.4	8.0	15.8	143.7	676.2	813.4	1 480.2	42.1	FF	(D)
	Utah	-	13	4	.7	13.8	.6	1.3	11.8	42.2	68.6	111.2	(D)	CC	(D)
	Vermont	-	8	5	.7	12.2	.7	1.4	10.7	88.0	51.4	142.0	(D)	.8	75.4
	Virginia	-	37	27	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	Washington	E2	54	21	3.4	91.6	2.8	5.4	71.8	369.6	439.6	814.6	16.4	3.0	213.2
	West Virginia	E3	8	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	Wisconsin	-	114	74	15.9	455.5	11.6	23.8	314.2	1 723.8	2 033.2	3 711.4	123.0	14.8	1 272.5
27	Printing and publishing	E1	61 791	12 616	1 494.0	33 440.0	797.1	1 537.6	15 658.9	90 162.2	46 371.9	136 195.6	4 908.4	1 291.8	54 423.4
	Alabama	E1	619	119	12.0	219.2	6.6	13.0	106.2	675.7	391.2	1 070.6	33.3	9.6	379.6
	Alaska	E3	88	10	1.6	32.4	.8	1.4	15.8	66.5	22.8	89.1	2.2	1.4	55.2
	Arizona	E1	883	136	15.1	305.6	7.4	14.4	137.7	861.0	358.8	1 219.6	57.3	10.8	387.0
	Arkansas	E1	389	91	10.6	180.3	6.5	12.1	104.0	510.2	305.2	815.3	55.8	10.1	404.0
	California	E2	7 932	1 351	156.5	3 614.4	81.6	154.9	1 680.9	9 544.2	4 429.8	13 942.9	452.7	131.1	5 473.2
	Colorado	E2	1 170	170	22.5	473.9	11.9	23.1	228.4	1 244.4	525.5	1 764.3	79.8	18.3	718.4
	Connecticut	E2	1 086	275	30.5	711.8	14.9	29.1	304.1	1 632.7	857.1	2 489.6	99.1	24.7	938.2
	Delaware	E1	129	30	2.6	54.9	1.4	2.8	26.6	139.1	74.5	212.4	(D)	2.3	84.6
	District of Columbia	E1	302	75	13.4	374.3	3.6	7.6	86.8	1 379.3	492.2	1 860.4	37.7	11.7	774.1
	Florida	E2	3 118	469	57.0	1 105.7	27.9	53.6	489.3	2 850.1	1 407.1	4 249.2	207.5	44.6	1 703.1
	Georgia	E2	1 437	286	31.9	634.9	18.4	36.5	344.2	1 663.2	954.5	2 622.7	141.1	24.4	856.4
	Hawaii	-	188	34	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	53.2	126.7
	Idaho	-	214	34	4.1	63.5	2.4	4.4	33.4	168.7	67.3	237.2	15.2	2.8	88.8
	Illinois	E1	3 496	862	109.4	2 651.6	61.9	122.5	1 348.1	6 909.7	3 777.2	10 672.6	387.2	101.8	4 659.2
	Indiana	E1	1 221	281	33.9	690.0	20.6	39.9	382.0	1 637.9	1 147.3	2 769.0	107.0	28.3	1 005.3
	Iowa	-	787	178	19.2	354.9	9.7	18.1	169.4	1 017.6	630.3	1 672.4	66.3	17.6	662.7
	Kansas	-	713	161	17.9	358.6	11.3	22.4	201.1	1 484.5	611.7	2 098.0	(D)	16.8	970.3
	Kentucky	E1	627	148	19.2	387.2	12.6	23.6	226.5	1 265.3	597.9	1 831.4	67.2	15.0	731.7
	Louisiana	E2	628	94	9.9	186.4	5.3	10.3	92.7	473.1	232.1	703.7	41.9	9.7	351.9
	Maine	E1	299	48	5.2	96.5	2.7	5.2	45.6	223.1	105.0	328.7	12.2	3.9	110.7

See footnotes at end of table.

Table 2. Industry Group Statistics by State: 1987 and 1982—Con.

[Includes industry groups with 450 manufacturing employees or more. Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes.]

1987 SIC code	Industry group and geographic area	1987											1982		
		All establishments ²		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materials ⁴ (million dollars)	Value of shipments ⁴ (million dollars)	New capital expend- itures (million dollars)	All em- ployees ³ (1,000)	Value added by manu- facture (million dollars)	
		E ¹	Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							Wages (million dollars)
27	Printing and publishing—Con.														
	Maryland	E2	1 086	284	29.8	681.3	17.5	33.7	356.7	1 558.8	895.6	2 452.4	99.0	22.2	826.6
	Massachusetts	E1	1 812	467	56.0	1 348.3	27.6	53.5	553.5	3 954.0	1 602.6	5 555.1	172.1	48.0	1 960.4
	Michigan	E2	1 976	417	45.7	1 047.5	24.4	47.8	485.3	2 267.1	1 349.6	3 610.8	(D)	35.1	1 357.6
	Minnesota	E1	1 383	317	41.9	959.1	24.3	46.0	484.0	2 215.2	1 239.7	3 440.1	207.1	34.8	1 222.5
	Mississippi	E1	335	58	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6.1	197.0
	Missouri	E1	1 497	317	38.8	879.9	19.9	38.7	390.1	2 031.8	1 175.2	3 187.4	86.1	35.4	1 181.8
	Montana	E1	195	26	2.4	36.4	1.1	1.9	14.7	97.9	29.0	128.9	4.2	2.3	89.0
	Nebraska	E1	450	98	9.7	180.1	5.8	10.8	95.4	439.6	270.6	708.7	32.2	7.7	244.4
	Nevada	E1	227	42	4.5	90.3	2.8	5.6	53.9	267.4	178.6	444.6	30.8	2.8	111.9
	New Hampshire	E2	363	68	7.8	159.2	4.2	8.1	73.8	413.4	212.5	626.5	25.7	6.5	236.6
	New Jersey	E2	2 492	561	63.1	1 487.1	33.3	63.0	675.0	3 592.4	1 836.0	5 389.1	165.5	53.7	2 130.0
	New Mexico	E1	253	38	3.6	63.6	1.7	3.1	25.1	163.8	56.6	220.3	13.6	3.3	109.7
	New York	E2	5 895	1 361	173.9	4 741.9	74.2	142.3	1 631.2	16 149.9	7 675.1	23 748.2	560.1	168.0	10 156.6
	North Carolina	E1	1 284	263	26.3	489.3	15.6	29.7	258.2	1 177.0	794.1	1 965.9	83.2	20.7	662.5
	North Dakota	E3	165	26	2.3	37.1	1.4	2.4	19.7	86.0	36.2	122.1	2.8	2.1	59.7
	Ohio	E1	2 397	573	66.4	1 488.5	38.5	75.9	787.7	3 788.1	1 943.2	5 734.1	219.2	62.3	2 495.0
	Oklahoma	E2	705	90	10.8	208.2	5.5	10.7	93.6	519.9	306.0	824.3	34.3	11.1	410.9
	Oregon	E1	827	134	13.1	270.6	7.4	14.0	139.9	676.9	382.5	1 057.7	32.9	10.1	376.2
	Pennsylvania	E1	2 452	628	82.4	1 812.5	46.9	88.5	927.4	4 710.2	2 639.0	7 334.2	233.7	73.9	2 938.1
	Rhode Island	E1	277	57	6.9	161.1	4.2	8.2	76.6	328.8	182.2	509.8	69.0	5.8	207.3
	South Carolina	E1	552	92	10.4	186.8	5.8	11.3	90.9	461.7	254.7	711.8	45.2	8.2	266.0
	South Dakota	E2	190	27	2.5	37.1	1.2	2.3	17.2	89.5	37.1	126.6	5.8	2.4	68.3
	Tennessee	E1	1 121	237	31.2	634.8	18.8	37.4	352.5	1 562.6	882.3	2 442.4	104.9	27.7	906.4
	Texas	E2	3 906	621	71.4	1 459.7	38.8	75.7	706.4	3 560.1	1 954.0	5 488.5	195.7	65.7	2 461.2
	Utah	E2	371	73	7.2	131.0	4.4	8.5	77.1	416.3	206.1	615.7	24.8	5.7	245.0
	Vermont	E1	211	48	4.8	89.3	3.2	6.1	53.9	244.3	151.6	393.8	11.8	4.1	144.5
	Virginia	E1	1 242	261	33.1	720.9	18.6	36.2	362.9	1 868.9	1 030.4	2 884.8	132.8	23.9	1 008.2
	Washington	E2	1 095	169	19.7	426.6	10.0	19.0	205.9	1 025.9	409.2	1 432.5	48.5	16.2	589.5
	West Virginia	E1	225	43	4.5	78.1	2.7	5.1	47.6	198.8	122.1	319.4	8.4	4.3	145.5
	Wisconsin	E1	1 377	352	40.4	829.3	23.3	45.5	471.5	1 968.3	1 280.8	3 240.2	156.5	32.1	1 103.8
	Wyoming	E2	104	16	1.2	17.7	.5	1.0	7.6	39.3	16.1	55.4	1.0	1.4	39.3
271	Newspapers	E1	9 091	2 619	434.4	9 021.7	148.4	262.4	2 985.1	24 311.3	7 533.6	31 850.1	1 522.7	401.5	15 275.3
	Alabama	-	125	37	4.2	73.6	1.6	2.8	23.8	222.6	59.4	281.9	10.2	3.9	139.7
	Alaska	E4	30	7	1.2	23.4	.5	.9	9.9	45.8	13.2	59.0	2.0	.9	34.5
	Arizona	-	117	32	6.7	140.5	1.8	3.5	42.8	403.8	108.1	511.9	38.9	5.2	199.3
	Arkansas	E2	117	39	3.7	54.6	1.5	2.7	20.1	118.0	48.2	166.2	19.8	3.3	82.8
	California	E1	732	247	52.1	1 160.2	16.2	29.1	380.0	3 066.9	855.8	3 924.9	151.4	46.1	1 894.3
	Colorado	E3	159	39	7.2	145.0	2.5	4.1	50.1	322.3	122.2	444.5	42.6	6.7	223.2
	Connecticut	E1	107	41	8.2	175.7	2.3	4.0	44.8	455.8	114.9	570.9	43.7	6.9	236.9
	Delaware	-	18	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	District of Columbia	-	28	8	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	Florida	-	317	95	25.2	501.7	7.8	14.0	151.6	1 524.7	512.9	2 034.4	129.3	21.9	962.1
	Georgia	E1	225	57	8.9	147.2	3.0	5.7	50.9	505.9	171.9	685.6	67.5	9.1	291.9
	Hawaii	-	17	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Idaho	-	56	16	1.7	25.9	.8	1.4	12.0	63.5	18.1	81.8	11.1	1.6	50.7
	Illinois	-	406	116	19.4	414.9	7.0	12.7	140.3	1 187.3	381.9	1 571.1	39.1	19.6	783.8
	Indiana	-	212	80	9.7	178.4	3.5	6.0	59.9	419.4	129.7	549.1	37.5	9.7	299.7
	Iowa	E1	272	56	5.9	85.8	2.2	3.5	29.2	255.6	71.0	326.6	8.9	6.7	193.8
	Kansas	E1	186	41	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.9	115.2
	Kentucky	E1	157	45	4.5	91.6	1.5	2.8	27.5	223.4	71.6	294.9	5.9	4.6	152.9
	Louisiana	E1	129	35	4.7	95.9	1.8	3.5	37.6	258.1	94.7	352.8	33.1	5.0	206.9
	Maine	E1	73	17	2.6	49.0	1.0	1.7	17.6	113.6	28.9	142.5	4.2	2.2	64.2
	Maryland	E1	94	35	6.1	133.9	2.0	3.6	42.5	372.4	117.8	490.2	30.5	4.8	202.3
	Massachusetts	-	239	81	16.1	382.0	4.9	8.4	108.5	1 030.6	281.2	1 311.1	59.9	13.5	563.8
	Michigan	E2	253	84	13.1	302.9	4.4	7.6	92.4	668.5	262.6	931.2	(D)	12.5	454.1
	Minnesota	E1	299	55	8.2	180.0	2.8	4.7	64.3	432.5	112.7	545.2	(D)	8.3	264.9
	Mississippi	E1	104	29	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.9	80.3
	Missouri	E1	294	66	8.2	166.7	3.1	5.5	60.7	441.9	168.5	610.4	9.6	8.2	304.7
	Montana	E1	84	15	1.5	22.5	.5	.8	6.4	66.5	13.2	79.6	1.8	1.5	50.4
	Nebraska	E2	137	32	3.2	46.5	1.2	2.1	15.6	122.9	42.6	165.5	3.1	3.1	97.6
	Nevada	-	40	10	1.6	27.9	.7	1.2	12.4	94.7	31.4	126.1	1.7	1.5	63.3
	New Hampshire	E1	58	20	2.2	42.7	.7	1.3	13.1	107.3	26.5	133.8	3.6	1.4	42.8
	New Jersey	E1	258	72	14.1	309.7	4.0	6.7	87.6	879.2	312.9	1 192.0	43.1	12.8	489.8
	New Mexico	-	53	16	1.8	36.2	.6	.9	8.7	105.3	23.7	129.1	(D)	2.0	74.0
	New York	E2	555	158	38.8	1 031.7	13.7	24.9	388.1	2 659.0	883.5	3 541.9	126.2	31.2	1 573.8
	North Carolina	-	223	84	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	8.2	261.3
	North Dakota	E3	82	12	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.5	43.0
	Ohio	E1	309	115	17.4	364.8	6.6	11.9	133.2	970.3	303.6	1 273.8	46.1	18.4	653.1
	Oklahoma	E1	175	40	4.9	87.0	1.8	3.4	28.3	229.8	65.8	295.5	8.2	5.1	187.0
	Oregon	-	126	42	4.6	92.0	1.6	2.8	32.2	219.7	82.8	302.4	7.7	4.5	165.7
	Pennsylvania	-	314	121	22.7	501.8	8.4	13.2	171.8	1 163.7	395.3	1 557.6	45.2	22.9	777.7
	Rhode Island	-	27	11	2.6	63.5	1.1	1.9	19.8	128.4	36.8	165.2	(D)	2.2	76.8
	South Carolina	-	101	27	4.3	71.3	1.4	2.5	18.7	201.8	59.0	260.7	30.9	3.8	122.4
	South Dakota	E2	104	16	1.5	19.3	.6	1.1	7.2	51.0	13.1	64.1	1.8	1.3	36.9
	Tennessee	E1	174	53	7.8	129.1	2.5	4.7	42.1	393.3	105.3	498.6	(D)	7.7	245.8
	Texas	E2	655	158	25.5	484.7	8.7	16.0	151.6	1 335.8	499.3	1 835.1	78.0	25.7	982.1

See footnotes at end of table.

Table 2. Industry Group Statistics by State: 1987 and 1982—Con.

[Includes industry groups with 450 manufacturing employees or more. Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry group and geographic area	1987											1982		
		All establishments ²		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materials ⁴ (million dollars)	Value of shipments ⁴ (million dollars)	New capital expend- itures (million dollars)	All em- ployees ³ (1,000)	Value added by manu- facture (million dollars)	
		E ¹	Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							Wages (million dollars)
27	Printing and publishing—Con.														
271	Newspapers—Con.														
	Vermont	E1	52	12	1.1	17.2	.5	.8	6.8	52.8	12.6	65.4	(D)	1.0	30.3
	Virginia	-	184	64	10.9	218.7	3.3	6.0	53.4	668.5	206.4	875.0	38.8	7.0	241.0
	Washington	E2	198	52	9.5	208.2	3.3	6.3	80.7	493.7	128.5	622.3	22.8	8.9	335.9
	West Virginia	E1	77	22	2.6	39.6	1.4	2.4	22.2	106.7	32.9	139.6	4.8	2.7	82.7
	Wisconsin	-	235	74	11.2	165.5	3.2	5.5	53.2	420.7	128.0	548.5	12.5	9.7	294.1
	Wyoming	E1	48	12	.8	11.7	.3	.5	3.8	27.0	7.9	34.9	.6	1.0	29.0
272	Periodicals	E2	4 020	876	110.0	2 982.7	18.3	32.4	358.2	11 452.1	5 872.7	17 329.2	246.4	94.0	6 910.9
	Alabama	E1	41	9	.9	18.2	.1	.2	1.5	128.2	49.4	177.5	1.8	BB	(D)
	California	E3	561	115	9.0	255.4	1.7	3.1	36.8	888.8	485.1	1 372.0	11.4	7.4	523.9
	Colorado	E2	71	11	.6	16.1	.1	.2	2.1	61.1	29.9	90.8	2.0	.8	42.5
	Connecticut	E2	110	27	2.1	56.2	.4	.7	7.3	213.5	111.8	323.8	4.1	1.6	102.9
	District of Columbia	-	73	25	5.0	154.7	.5	.8	9.2	563.6	297.4	850.4	21.3	3.2	290.9
	Florida	E3	213	28	3.0	61.6	.6	1.1	9.3	182.9	108.5	290.7	4.6	1.8	102.4
	Georgia	E3	77	17	1.6	34.7	.3	.6	5.1	115.3	51.0	167.7	1.9	.8	40.5
	Illinois	E2	246	55	12.0	288.1	2.5	4.5	60.9	877.1	421.7	1 295.7	18.2	10.7	612.4
	Indiana	E3	50	12	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8	24.6
	Iowa	-	30	8	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Kansas	E2	43	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
	Maryland	E1	87	16	1.9	40.8	.3	.5	6.2	136.1	67.8	203.8	4.9	.8	41.8
	Massachusetts	E3	154	39	3.6	97.9	.5	1.0	9.5	350.4	146.5	495.7	5.4	2.8	171.8
	Michigan	E4	95	13	1.4	33.1	.3	.5	5.0	88.4	48.1	137.4	(D)	1.1	51.5
	Minnesota	E2	85	18	2.7	57.2	.3	.5	4.7	195.1	74.2	269.8	(D)	1.6	84.8
	Missouri	E1	62	13	2.4	46.9	.7	1.4	11.8	123.0	47.3	169.6	1.9	2.1	89.0
	New Hampshire	E1	35	7	.9	23.1	.1	.2	1.6	88.1	44.1	132.1	4.1	.5	31.6
	New Jersey	E2	144	35	3.4	87.2	.6	.9	9.5	285.5	149.5	435.5	(D)	2.5	130.6
	New York	E2	608	220	33.3	1 146.2	3.9	6.7	84.0	5 012.2	2 574.4	7 582.0	120.6	34.8	3 268.8
	North Carolina	E1	59	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	24.7
	Ohio	E1	93	32	3.5	82.2	.8	1.5	14.1	278.1	109.3	388.6	(D)	3.1	189.9
	Oklahoma	E4	32	5	.8	20.3	.1	.2	1.7	59.9	28.1	88.3	1.3	CC	38.6
	Pennsylvania	E1	138	37	6.8	155.3	1.2	2.2	23.4	795.9	491.0	1 280.4	6.7	4.5	408.4
	Tennessee	E3	46	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.5	78.9
	Texas	E5	204	29	2.5	58.1	.6	1.2	12.0	170.3	81.8	252.2	3.6	2.2	125.3
	Virginia	E3	102	11	1.0	24.5	.2	.4	4.3	67.5	26.2	93.5	1.6	.9	30.8
	Washington	E6	77	10	.6	13.3	.2	.3	3.3	38.0	17.2	55.5	.5	.5	29.9
	Wisconsin	E2	83	14	1.3	28.0	.3	.6	5.5	90.5	37.2	128.0	(D)	.9	49.5
273	Books	E1	2 859	693	113.6	2 821.2	50.3	96.5	981.7	11 107.1	4 932.4	15 875.8	394.2	111.7	6 721.4
	California	E2	433	82	8.2	212.5	2.9	5.3	56.6	637.4	281.5	909.6	20.4	7.3	399.0
	Colorado	E2	57	10	1.3	24.9	.7	1.3	12.7	95.8	21.1	116.6	2.0	.9	43.8
	Connecticut	E3	64	16	2.6	56.3	.4	.7	8.4	110.8	55.7	165.9	2.1	1.6	75.3
	Florida	E2	101	10	1.2	24.7	.6	1.0	9.5	84.7	21.9	106.4	2.2	1.2	47.9
	Georgia	E6	42	13	1.1	23.7	.5	1.0	10.3	67.0	32.9	99.8	1.3	.9	31.2
	Illinois	E1	164	54	7.9	214.0	1.7	3.3	35.8	980.4	327.4	1 287.3	57.9	7.9	702.5
	Indiana	-	44	11	4.0	93.5	2.8	5.4	57.4	226.9	127.8	351.2	10.9	3.5	146.1
	Iowa	-	19	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	28.1
	Kansas	-	30	9	1.5	21.4	1.1	2.0	13.6	67.3	25.2	91.3	(D)	EE	(D)
	Kentucky	E1	20	10	1.3	26.2	.9	1.5	16.8	63.1	31.0	94.2	1.3	1.3	34.7
	Maryland	E3	76	21	2.4	50.6	1.4	2.8	26.8	114.9	71.0	185.9	6.2	1.9	57.5
	Massachusetts	-	123	39	7.3	190.3	3.1	6.0	66.5	794.6	312.8	1 103.2	18.0	7.5	471.0
	Michigan	E1	57	25	3.3	71.4	2.0	3.9	36.0	165.3	94.3	257.0	8.6	2.3	89.4
	Minnesota	-	47	13	4.8	130.6	3.0	4.8	57.4	294.5	180.3	471.2	(D)	4.0	167.4
	Missouri	-	54	14	3.0	63.8	1.6	2.8	28.3	187.8	95.9	281.2	5.0	2.5	100.8
	New Jersey	-	140	45	5.2	133.5	1.6	2.8	24.8	579.0	205.9	754.5	12.5	6.3	324.3
	New York	-	481	131	23.8	691.5	4.7	8.8	101.3	4 309.6	1 866.3	6 111.7	78.5	26.3	2 437.5
	North Carolina	E2	43	11	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	43.7
	Ohio	-	70	14	4.7	127.2	2.9	6.0	74.4	429.4	131.5	552.4	30.8	6.1	357.2
	Pennsylvania	-	106	40	6.9	149.8	4.7	9.2	91.6	362.2	191.5	559.8	21.6	7.2	298.7
	Tennessee	-	55	14	6.0	133.9	3.6	7.3	65.9	349.6	155.6	510.9	23.7	5.2	158.1
	Texas	E1	123	20	3.4	77.2	1.7	3.4	28.0	252.7	110.0	349.3	(D)	3.8	130.3
	Utah	E5	29	6	.5	8.8	.3	.6	4.4	47.0	24.4	71.2	5.6	.3	27.1
	Vermont	E1	13	4	.6	9.2	.5	.9	7.1	17.6	9.0	26.4	(D)	.9	21.8
	Virginia	-	52	14	2.9	66.1	1.9	3.5	33.2	240.6	120.1	355.6	20.6	2.6	205.8
	Wisconsin	-	55	20	3.8	100.3	2.7	5.9	65.4	253.2	240.6	491.7	18.2	3.6	129.1
274	Miscellaneous publishing	E2	2 369	598	69.5	1 513.1	23.8	43.3	359.6	6 023.0	1 791.0	7 809.5	133.0	45.3	1 958.2
	Arkansas	E3	10	5	.8	9.7	.5	.8	5.1	29.7	17.6	47.7	(D)	CC	(D)
	California	E1	331	73	8.4	190.6	3.5	5.8	50.2	1 170.3	243.5	1 394.9	14.8	5.4	210.6
	Colorado	E3	51	12	3.6	87.0	1.5	3.8	29.9	313.0	58.6	370.0	9.3	1.8	120.2
	Connecticut	E2	48	11	1.9	44.3	.3	.5	5.4	104.2	30.8	134.5	1.4	1.1	44.5
	Florida	E2	128	36	3.2	52.2	1.3	2.5	17.6	120.5	43.5	163.3	3.9	2.1	64.6
	Georgia	E7	37	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	17.7
	Illinois	E1	121	42	3.5	74.8	1.1	1.8	19.8	368.9	184.0	572.7	3.4	2.7	134.7
	Indiana	E9	44	9	1.5	25.7	.6	1.3	8.5	79.3	34.2	113.5	1.6	CC	(D)
	Iowa	E2	39	10	.7	9.8	.3	.4	2.7	27.4	9.2	36.6	2.9	CC	(D)
	Kansas	-	26	11	1.4	29.7	.7	1.6	11.7	277.0	63.1	340.1	(D)	1.5	91.1
	Kentucky	E1	25	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	11.2
	Maryland	E3	44	15	1.5	34.5	.6	.9	8.3	84.0	30.2	114.2	2.9	CC	(D)
	Massachusetts	-	61	18	3.4	102.3	.7	1.2	8.9	632.0	120.2	750.8	7.5	.6	22.6
	Michigan	E7	90	40	5.1	92.3	1.7	3.1	26.0	297.6	107.5	404.2	(D)	2.4	115.5
	Minnesota	E1	59	19	1.5	29.8	.6	1.1	9.5	107.6	42.0	148.3	1.7	1.1	42.1
	Missouri	E3	43	12	.9	16.4	.3	.5	4.3	46.2	17.5	63.9	.5	CC	(D)
	Nebraska	E1	16	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	11.2
	New Jersey	E1	72	21	3.9	104.1	.9	1.8	17.8	183.1	56.9	240.8	5.3	1.8	76.1
	New York	E2	323	73	9.4	251.8	2.2	4.0	35.7	882.0	263.4	1 146.5	28.6	9.6	432.3
	North Carolina	E1	34	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	18.5

See footnotes at end of table.

Table 2. Industry Group Statistics by State: 1987 and 1982—Con.

[Includes industry groups with 450 manufacturing employees or more. Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry group and geographic area	1987											1982	
		All establishments ²		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materials ⁴ (million dollars)	Value of shipments ⁴ (million dollars)	New capital expend- itures (million dollars)	All em- ployees ³ (1,000)	Value added by manu- facture (million dollars)
		E ¹	Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
27	Printing and publishing—Con.													
274	Miscellaneous publishing—Con.													
	Ohio	E5	61	24	2.6	47.8	1.0	1.7	12.7	138.6	110.9	249.9	3.9	1.2
	Oregon	-	22	6	.6	15.3	.3	.6	6.3	66.3	12.1	78.4	(D)	AA
	Pennsylvania	E1	90	23	2.5	50.0	.9	1.7	16.0	171.8	63.0	235.3	6.3	EE
	Tennessee	E5	71	10	.8	13.5	.3	.4	3.0	38.7	18.0	56.2	(D)	CC
	Texas	E2	134	22	2.4	45.8	.8	1.5	12.9	119.4	49.7	166.9	(D)	EE
	Virginia	E4	48	12	1.1	26.5	.2	.4	4.4	71.3	26.0	96.8	(D)	1.0
	Wisconsin	E4	52	18	1.2	13.4	.6	.9	5.5	35.6	16.0	51.5	1.6	.9
275	Commercial printing	E2	36 111	5 583	553.4	12 301.3	401.3	794.4	7 889.6	25 019.2	19 867.3	44 786.1	2 013.1	451.7
	Alabama	E2	372	52	5.1	94.5	3.7	7.5	60.5	184.8	203.5	388.0	18.6	(NA)
	Arizona	E2	554	63	5.5	102.6	3.9	7.7	65.5	196.0	149.7	347.0	14.7	(NA)
	Arkansas	E1	205	28	2.9	57.1	2.1	4.2	38.8	117.5	99.0	215.8	23.3	(NA)
	California	E2	4 869	588	57.7	1 298.5	41.8	81.4	828.4	2 656.8	1 935.5	4 587.8	192.7	(NA)
	Colorado	E2	708	73	6.4	128.5	4.6	8.9	81.6	259.7	210.6	470.8	18.5	(NA)
	Connecticut	E2	617	128	11.9	286.2	8.7	17.6	179.1	560.9	421.1	983.1	37.3	(NA)
	Delaware	E2	76	17	1.3	25.3	1.0	2.0	17.3	43.0	33.3	75.1	(D)	(NA)
	District of Columbia	E5	116	22	1.9	51.8	1.4	2.8	34.8	89.8	101.1	190.6	3.6	(NA)
	Florida	E3	2 076	239	19.8	368.8	14.2	28.0	236.1	723.9	606.1	1 328.3	56.6	(NA)
	Georgia	E3	874	127	13.4	298.6	9.9	20.0	198.2	646.3	555.8	1 198.6	55.6	(NA)
	Hawaii	E1	107	14	1.1	23.3	.8	1.5	14.9	46.9	28.4	75.0	2.6	(NA)
	Idaho	E1	121	13	1.6	21.5	1.2	2.2	14.1	44.0	28.1	72.1	2.5	(NA)
	Illinois	E1	2 039	403	47.2	1 193.9	35.2	70.6	792.7	2 429.4	1 873.0	4 295.8	207.5	(NA)
	Indiana	E1	729	123	12.8	279.4	9.5	18.9	187.0	615.1	477.0	1 283.3	43.1	(NA)
	Iowa	E1	358	69	6.4	136.0	4.8	9.5	93.3	268.9	230.5	496.8	31.4	(NA)
	Kansas	E1	349	68	5.6	121.7	4.1	8.1	77.0	247.7	273.4	524.8	(D)	(NA)
	Kentucky	E1	334	58	8.2	169.2	6.4	12.6	115.4	389.8	314.5	705.1	45.4	(NA)
	Louisiana	E3	388	38	3.6	62.2	2.5	4.9	38.7	125.3	103.4	228.6	5.9	(NA)
	Maine	E1	156	19	1.8	33.0	1.4	2.8	23.4	65.6	59.4	126.2	6.9	(NA)
	Maryland	E2	641	141	13.2	321.4	9.7	18.6	205.8	598.8	477.3	1 074.4	38.7	(NA)
	Massachusetts	E3	1 008	216	17.5	403.7	12.5	24.8	251.9	790.3	564.3	1 356.9	67.7	(NA)
	Michigan	E2	1 218	177	17.2	401.4	12.0	24.5	238.1	746.2	670.0	1 413.6	(D)	(NA)
	Minnesota	E2	748	156	20.2	446.2	14.4	28.5	279.9	930.0	716.2	1 636.8	69.3	(NA)
	Mississippi	E1	187	21	3.2	59.0	2.4	4.6	40.4	126.9	100.6	226.7	7.3	(NA)
	Missouri	E1	819	135	12.3	272.9	8.9	17.7	174.3	534.8	437.9	969.2	33.0	(NA)
	Montana	E2	76	6	.6	7.8	.4	.8	5.7	16.3	10.4	26.7	1.8	(NA)
	Nebraska	E1	229	44	4.3	86.2	3.3	6.4	58.2	161.1	170.1	329.9	21.8	(NA)
	Nevada	E1	136	25	2.5	53.0	1.8	3.8	35.9	144.9	133.7	277.5	28.6	(NA)
	New Hampshire	E2	192	23	2.4	50.8	1.7	3.3	30.9	96.9	68.4	165.2	11.5	(NA)
	New Jersey	E2	1 505	264	25.3	587.7	17.7	34.6	359.0	1 159.8	861.3	2 013.0	72.6	(NA)
	New Mexico	E3	138	14	1.1	18.0	.8	1.6	11.8	34.7	24.1	58.6	3.2	(NA)
	New York	E2	3 050	526	48.3	1 170.6	34.3	67.0	718.4	2 397.8	1 714.6	4 106.1	166.8	(NA)
	North Carolina	E1	780	109	10.2	201.2	7.6	15.2	131.9	422.2	499.7	917.6	37.0	(NA)
	North Dakota	E2	71	13	.8	13.1	.5	1.0	8.3	23.6	17.0	40.5	(D)	(NA)
	Ohio	E1	1 574	291	28.4	628.9	20.2	40.7	395.1	1 344.7	995.9	2 330.4	86.5	(NA)
	Oklahoma	E2	411	31	3.5	64.0	2.6	5.0	43.6	137.6	136.4	274.6	17.8	(NA)
	Oregon	E2	480	50	5.0	98.6	3.6	6.8	64.4	220.6	177.8	397.5	14.9	(NA)
	Pennsylvania	E2	1 495	283	30.4	671.7	21.8	42.9	430.9	1 394.3	986.6	2 374.1	126.5	(NA)
	Rhode Island	E1	187	30	2.8	64.8	2.0	4.2	39.3	119.5	111.7	232.0	(D)	(NA)
	South Carolina	E1	342	52	4.6	88.3	3.4	6.8	55.9	182.5	165.5	343.8	11.9	(NA)
	South Dakota	E1	67	9	.9	15.3	.6	1.2	9.4	30.6	21.2	51.8	3.8	(NA)
	Tennessee	E1	650	108	11.7	255.4	8.9	18.2	174.4	531.6	468.0	994.9	53.7	(NA)
	Texas	E2	2 369	260	25.5	535.2	18.6	36.8	344.3	1 048.7	824.8	1 869.8	73.6	(NA)
	Utah	E1	203	32	3.4	63.4	2.2	4.3	39.6	154.2	87.3	240.4	5.1	(NA)
	Vermont	E2	97	21	1.8	37.0	1.3	2.8	23.8	73.7	48.3	121.7	5.3	(NA)
	Virginia	E2	738	127	14.3	324.8	10.8	21.7	226.6	626.0	541.2	1 162.7	59.3	(NA)
	Washington	E3	647	81	7.2	147.2	5.0	9.5	89.8	294.0	198.1	490.1	21.0	(NA)
	West Virginia	E2	120	13	1.2	22.3	.9	1.7	14.5	41.2	29.6	71.4	(D)	(NA)
	Wisconsin	E1	798	177	18.9	426.4	13.7	27.3	282.3	899.4	692.2	1 587.3	108.5	(NA)
276	Manifold business forms	E1	856	589	53.3	1 280.5	37.3	77.3	824.9	3 894.1	3 506.1	7 397.1	207.8	49.5
	Arkansas	-	5	5	.7	18.0	.6	1.2	14.0	66.8	30.6	97.7	3.6	CC
	California	-	100	68	5.3	135.7	3.6	7.5	89.1	389.2	383.2	772.6	22.3	5.2
	Colorado	E3	11	8	.5	13.4	.3	.7	7.6	25.3	30.1	55.9	(D)	.4
	Connecticut	E3	16	12	.8	20.8	.6	1.3	13.5	52.8	54.0	107.4	3.1	1.5
	Florida	E1	24	16	1.2	25.9	.8	1.5	14.2	62.8	72.7	134.3	3.0	1.0
	Georgia	E2	29	16	1.4	29.8	1.0	2.1	22.2	98.5	68.0	166.2	3.1	1.1
	Illinois	E1	59	43	4.0	98.7	2.7	5.8	60.8	268.1	278.0	544.4	19.2	3.6
	Indiana	-	13	9	1.1	29.0	.8	1.7	21.0	97.6	99.7	195.4	4.0	1.7
	Iowa	E1	16	14	1.4	30.5	1.0	2.0	20.2	121.7	95.3	213.8	12.8	1.0
	Kansas	-	16	11	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2
	Kentucky	-	6	6	.5	10.5	.4	.7	6.5	37.8	27.5	65.5	1.3	CC
	Maryland	-	12	10	1.3	28.9	.9	1.9	18.5	120.2	80.2	201.1	7.3	1.3
	Massachusetts	-	13	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5
	Michigan	E1	38	23	1.8	47.4	1.1	2.5	26.9	102.7	106.6	209.2	6.5	1.4
	Minnesota	E1	18	14	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6
	Missouri	-	23	13	1.3	28.8	1.0	2.0	19.1	119.7	133.9	252.6	3.5	1.0
	New Hampshire	E1	7	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5
	New Jersey	E1	33	22	1.6	45.5	1.0	2.1	23.8	97.9	103.2	200.6	6.1	EE
	New York	E2	59	31	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.8
	North Carolina	E1	24	17	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0
	Ohio	-	37	30	3.6	88.7	2.6	5.4	60.2	248.3	191.8	458.9	21.6	4.5
	Oklahoma	-	8	5	.8	19.6	.5	1.1	11.6	47.5	61.2	106.7	(D)	.8
	Oregon	-	16	13	1.0	24.4	.6	1.3	15.0	77.1	66.8	143.5	1.7	.8
	Pennsylvania	E1	54	39	4.2	102.2	3.0	6.3	70.1	426.6	397.2	820.8	10.9	3.7
	South Carolina	-	9	4	.7	15.0	.5	1.1	9.9	42.1	19.1	60.7	1.1	.5

See footnotes at end of table.

Table 2. Industry Group Statistics by State: 1987 and 1982—Con.

[Includes industry groups with 450 manufacturing employees or more. Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendices]

1987 SIC code	Industry group and geographic area	1987											1982	
		All establishments ²		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materials ⁴ (million dollars)	Value of shipments ⁵ (million dollars)	New capital expend- itures (million dollars)	All em- ployees ³ (1,000)	Value added by manu- facture (million dollars)
		E ¹	Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
27	Printing and publishing—Con.													
276	Manifold business forms—Con.													
	Tennessee	E2	20	13	.9	20.6	.7	1.4	14.3	56.9	50.4	108.1	(D)	.7
	Texas	E1	70	49	4.0	91.0	2.8	5.8	57.6	256.4	264.2	519.5	11.7	3.9
	Utah	E1	7	7	.7	15.1	.6	1.1	11.9	70.7	28.5	98.3	(D)	.6
	Vermont	-	4	4	.6	14.2	.5	.9	11.2	71.4	69.3	139.0	(D)	CC
	Virginia	E2	15	12	1.2	25.8	.9	1.7	16.8	122.9	93.1	211.7	7.2	1.2
	Washington	E5	12	7	.5	12.0	.3	.7	7.5	24.4	25.4	49.7	.8	.4
	Wisconsin	-	20	13	1.6	34.8	.9	1.7	19.0	140.8	119.3	258.2	4.6	1.0
277	Greeting cards	-	162	64	21.5	471.1	11.9	21.7	207.1	2 203.9	773.9	2 911.1	65.6	20.8
	Arkansas	-	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF
	Colorado	-	5	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC
	Illinois	E2	14	8	1.0	20.2	.7	1.6	11.4	65.5	27.7	90.3	1.7	.6
	Kansas	-	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE
	Kentucky	-	4	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE
	Massachusetts	E2	11	4	.7	10.7	.6	1.1	6.7	26.8	21.9	52.3	.4	.8
	Missouri	-	6	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF
	Ohio	-	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE
	Rhode Island	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB
	Texas	-	6	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC
278	Blankbooks and bookbinding	E1	1 546	695	68.8	1 264.8	54.2	105.8	855.9	2 926.9	1 173.2	4 079.9	135.7	61.2
	Alabama	-	8	5	.5	8.8	.4	.7	5.5	24.9	9.2	34.2	.5	.4
	Arizona	-	22	13	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6
	California	E1	209	69	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6.2
	Colorado	-	22	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1
	Connecticut	E2	22	11	1.2	24.3	.8	1.5	12.7	53.2	43.1	96.7	1.2	1.3
	Florida	E1	53	18	1.5	26.0	1.2	2.2	19.2	66.6	15.2	81.7	3.1	1.2
	Georgia	-	43	24	2.7	40.1	2.2	4.4	28.2	86.8	34.6	121.2	(D)	1.8
	Illinois	E1	127	63	7.9	150.6	6.0	12.4	95.1	383.8	190.8	568.6	22.6	6.5
	Indiana	-	33	19	2.3	35.7	1.9	3.7	24.7	79.0	30.1	108.0	4.7	1.4
	Kansas	E1	15	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5
	Maryland	E1	31	19	1.9	35.3	1.5	3.1	24.0	69.3	29.8	98.8	4.7	1.3
	Massachusetts	E1	55	29	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.9
	Michigan	E1	31	14	1.1	23.8	.8	1.6	15.9	61.0	18.5	79.3	(D)	1.3
	Minnesota	E2	39	16	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2
	Missouri	E2	47	20	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.7
	New Hampshire	-	10	7	.7	9.8	.6	1.1	8.1	25.1	14.0	39.0	(D)	BB
	New Jersey	E2	87	47	4.8	89.1	3.9	7.1	63.7	165.3	79.5	243.6	8.0	4.8
	New York	E2	227	98	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	8.3
	North Carolina	E1	27	13	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9
	Ohio	E1	58	23	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE
	Oregon	-	23	8	.7	14.8	.6	1.3	11.4	29.5	15.0	44.7	(D)	.4
	Pennsylvania	E4	54	32	3.4	65.0	2.6	4.7	41.2	166.8	57.6	223.8	6.4	3.2
	Tennessee	E3	29	14	1.6	30.7	1.3	2.6	22.5	91.0	30.7	121.6	3.5	1.2
	Texas	E1	87	40	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.1
	Virginia	-	16	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6
	Wisconsin	-	27	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8
279	Printing trade services	E1	4 777	899	69.4	1 783.5	51.6	103.8	1 196.8	3 224.6	921.9	4 156.8	190.0	(NA)
	Alabama	E1	28	5	.5	8.5	.4	.9	6.1	15.5	2.5	18.0	1.3	(NA)
	Arizona	E1	60	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
	California	E1	674	104	8.0	223.9	5.8	11.2	146.5	404.9	127.3	534.1	24.3	(NA)
	Colorado	E1	86	8	.7	15.6	.5	1.0	10.3	28.0	8.2	36.2	1.1	(NA)
	Connecticut	E1	102	29	1.8	48.0	1.4	2.7	32.9	81.5	25.6	107.4	6.1	(NA)
	District of Columbia	-	30	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
	Florida	E2	206	27	2.0	44.8	1.5	3.2	31.8	83.9	26.3	110.2	4.8	(NA)
	Georgia	E3	109	21	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
	Illinois	E1	320	78	6.6	196.4	4.9	10.0	131.3	349.1	92.7	446.7	17.7	(NA)
	Indiana	E1	93	16	1.3	27.1	1.0	2.2	18.4	51.5	19.2	70.8	3.7	(NA)
	Iowa	-	40	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
	Kansas	-	45	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
	Kentucky	E1	37	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
	Maryland	E2	99	25	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
	Massachusetts	E1	148	34	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
	Michigan	E1	187	39	2.7	72.6	2.0	4.0	44.1	131.2	38.1	168.7	8.5	(NA)
	Minnesota	E1	84	25	1.8	53.3	1.3	2.7	32.4	103.1	28.8	131.2	6.2	(NA)
	Missouri	E2	149	39	2.5	66.9	1.8	3.7	43.2	110.3	31.2	141.9	8.8	(NA)
	New Jersey	E1	247	51	4.7	126.1	3.6	7.0	86.9	227.2	61.5	288.4	13.4	(NA)
	New York	E2	570	117	9.4	243.5	7.1	14.2	165.5	457.4	123.3	583.8	16.9	(NA)
	North Carolina	E1	93	13	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
	Ohio	E2	192	42	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
	Oregon	E2	76	6	.5	10.8	.4	.7	7.2	21.2	5.1	26.3	1.6	(NA)
	Pennsylvania	E1	194	50	5.1	111.6	4.0	7.8	78.6	203.7	49.8	252.6	(D)	(NA)
	Tennessee	E1	75	16	1.3	30.1	.9	1.8	20.4	56.7	14.7	71.1	(D)	(NA)
	Texas	E2	258	41	3.2	77.1	2.4	4.9	51.6	144.3	45.8	193.4	(D)	(NA)
	Virginia	E2	85	15	1.0	23.3	.8	1.6	16.6	40.2	8.5	48.6	2.9	(NA)
	Washington	E1	57	7	.7	19.4	.5	1.1	13.7	35.5	13.7	48.9	1.6	(NA)
	Wisconsin	E1	106	26	1.8	47.3	1.3	2.6	31.2	86.9	30.8	117.6	6.3	(NA)

See footnotes at end of table.

Table 2. Industry Group Statistics by State: 1987 and 1982—Con.

[Includes industry groups with 450 manufacturing employees or more. Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes.]

1987 SIC code	Industry group and geographic area	1987											1982	
		All establishments ²		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materials ⁴ (million dollars)	Value of shipments ⁴ (million dollars)	New capital expend- itures (million dollars)	All em- ployees ³ (1,000)	Value added by manu- facture (million dollars)
		Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
28	Chemicals and allied products	12 039	4 895	814.0	25 016.3	462.9	944.7	12 312.5	120 777.6	109 231.1	229 546.1	8 710.6	872.6	77 314.8
	Alabama	167	64	10.7	339.9	6.6	14.9	191.9	1 697.7	1 750.4	3 433.7	216.7	13.8	992.9
	Arizona	E1 95	31	3.4	71.1	2.3	4.7	40.7	393.0	172.8	557.1	19.6	2.6	181.4
	Arkansas	80	32	5.4	147.4	3.8	7.9	93.3	709.8	578.6	1 280.4	100.9	7.9	526.0
	California	E1 1 423	499	54.1	1 543.5	26.5	53.3	585.8	5 449.2	5 669.4	11 096.5	368.1	52.6	4 058.5
	Colorado	E2 114	27	2.5	64.0	1.4	2.8	28.1	226.3	213.9	436.4	15.0	2.5	166.4
	Connecticut	166	73	13.5	449.8	6.3	14.0	166.6	1 759.2	1 142.8	2 846.5	111.7	13.8	1 204.8
	Delaware	47	27	6.7	218.2	4.4	9.5	134.5	1 367.0	1 176.3	2 530.5	87.1	6.7	614.5
	Florida	E1 493	141	19.0	520.3	11.7	25.0	282.4	2 208.1	3 232.5	5 458.2	114.8	22.7	1 402.1
	Georgia	E1 408	177	18.4	501.4	11.0	22.5	258.4	2 475.4	2 682.5	5 162.1	230.0	19.3	1 789.8
	Idaho	32	8	3.2	112.5	1.8	3.4	55.3	334.1	291.6	631.2	(D)	3.2	304.7
	Illinois	724	354	49.0	1 501.9	26.0	53.7	684.7	7 446.1	6 447.7	13 834.9	480.1	48.4	5 038.6
	Indiana	252	109	27.1	977.7	11.7	24.0	358.1	4 961.5	3 163.4	8 080.6	289.8	26.4	2 652.2
	Iowa	126	42	5.4	149.8	3.4	6.9	84.0	1 105.7	855.3	1 972.6	36.3	5.7	1 077.9
	Kansas	115	59	7.8	232.5	4.7	9.8	127.5	1 222.9	1 040.1	2 267.9	58.7	8.2	794.7
	Kentucky	146	70	12.0	383.9	7.6	15.9	226.0	1 688.4	2 364.1	4 057.5	161.3	13.2	1 108.6
	Louisiana	242	121	25.4	965.4	15.3	33.1	540.4	6 759.9	8 538.9	15 314.7	658.5	31.8	3 098.2
	Maine	E1 36	9	.7	19.9	.4	.8	8.1	80.3	67.1	148.2	5.2	.7	49.6
	Maryland	161	69	12.0	350.3	6.7	14.3	170.6	1 544.3	1 460.2	3 007.1	89.2	11.9	1 125.7
	Massachusetts	E1 303	130	12.6	368.0	6.1	12.4	144.4	1 306.2	1 093.3	2 402.2	97.6	15.1	981.6
	Michigan	402	156	28.3	901.8	16.3	33.3	471.2	4 316.3	2 814.0	7 073.4	434.8	29.5	2 202.0
	Minnesota	E1 185	59	6.9	188.2	3.7	7.3	84.3	889.5	723.7	1 608.0	(D)	6.3	517.4
	Mississippi	86	34	5.7	144.8	3.7	7.4	83.4	692.9	821.5	1 551.9	111.8	6.4	550.5
	Missouri	345	137	20.3	603.9	11.2	23.2	276.2	3 445.2	2 147.4	5 570.1	183.6	22.7	2 202.0
	Montana	32	5	.5	13.9	.4	.7	8.2	44.9	101.2	145.0	5.0	.5	21.6
	Nebraska	51	28	2.7	58.9	1.8	3.7	32.2	370.4	269.5	604.1	16.0	2.4	330.0
	Nevada	E1 37	6	.8	22.1	.6	1.1	13.6	87.0	62.8	148.5	11.2	1.0	75.2
	New Hampshire	31	8	1.0	26.0	.6	1.2	14.8	102.4	112.3	214.5	8.0	.7	56.8
	New Jersey	912	482	76.8	2 436.7	41.4	82.6	1 101.5	12 524.5	7 868.0	20 301.1	591.0	92.0	7 758.2
	New Mexico	E4 42	7	.7	17.2	.3	.7	6.2	43.4	47.0	88.7	3.5	.9	19.2
	New York	E1 746	279	45.3	1 211.9	26.9	53.5	611.1	6 456.2	3 570.3	10 017.3	330.5	48.7	5 146.0
	North Carolina	321	154	33.5	884.0	22.8	45.6	506.6	5 550.0	3 626.7	9 102.0	376.6	35.4	2 598.6
	North Dakota	E1 23	4	.7	11.1	.5	1.0	8.7	24.2	61.1	84.1	(D)	BB	(D)
	Ohio	656	314	43.0	1 301.2	23.3	47.6	627.6	6 499.0	6 550.7	12 966.5	395.3	43.6	4 334.1
	Oklahoma	117	32	2.8	71.2	1.7	3.5	40.7	486.2	462.5	954.9	28.8	3.4	491.7
	Oregon	E2 131	39	2.5	64.5	1.5	3.0	33.8	279.1	374.5	651.2	13.4	2.3	143.3
	Pennsylvania	564	234	37.1	1 142.4	20.0	39.0	527.2	5 471.9	3 930.1	9 361.1	348.3	38.7	3 865.9
	Rhode Island	E1 58	18	2.0	53.6	1.0	2.1	23.5	109.6	286.3	397.3	9.6	2.9	94.6
	South Carolina	169	100	34.0	1 022.5	20.6	42.4	524.6	3 608.4	3 154.4	6 729.6	327.4	33.4	2 504.9
	Tennessee	243	102	40.2	1 158.2	23.8	49.0	597.4	3 743.6	3 420.6	7 149.0	386.4	50.3	3 024.0
	Texas	911	366	70.1	2 540.2	40.4	85.6	1 356.5	14 769.2	19 894.5	34 659.3	1 346.0	74.3	8 441.8
	Utah	E2 76	22	1.6	39.5	.9	1.9	19.9	135.5	107.3	170.7	9.6	2.3	187.4
	Vermont	E1 16	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	16.0
	Virginia	175	71	30.7	909.8	20.5	40.6	526.7	3 441.3	2 840.3	6 240.6	198.2	31.6	2 318.3
	Washington	174	42	12.0	446.6	4.6	6.3	153.4	1 245.5	397.9	1 648.3	21.8	8.8	670.7
	West Virginia	70	38	14.5	515.2	9.9	20.0	325.1	2 002.0	2 195.5	4 366.7	216.8	17.1	1 438.7
	Wisconsin	254	98	8.8	234.3	5.0	10.2	111.7	1 376.5	994.4	2 366.1	66.2	8.4	888.6
	Wyoming	24	5	.9	32.7	.6	1.2	21.2	191.8	247.1	441.9	12.7	.4	80.9
281	Industrial inorganic chemicals	1 393	529	93.6	3 098.7	50.2	101.5	1 513.1	11 240.4	8 503.0	19 773.8	794.2	107.7	8 828.5
	Alabama	41	16	1.7	55.8	1.0	2.3	31.1	237.5	286.2	524.2	(D)	2.4	158.7
	Arkansas	9	4	1.0	33.2	.7	1.4	22.6	64.9	70.5	136.1	(D)	EE	(D)
	California	E1 121	39	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.1	344.5
	Delaware	10	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	Georgia	61	25	2.6	73.5	1.7	3.5	42.7	366.8	379.2	740.4	48.5	2.0	209.9
	Idaho	8	3	2.1	85.4	1.2	2.2	40.7	256.3	179.8	444.6	(D)	EE	(D)
	Illinois	63	29	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.6	338.1
	Indiana	36	16	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	141.0
	Iowa	E1 14	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	23.6
	Kansas	17	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	58.8
	Kentucky	18	5	2.4	77.3	1.5	3.1	45.6	258.7	457.4	717.4	(D)	3.1	239.3
	Louisiana	66	27	3.2	104.8	2.1	4.3	66.9	486.4	653.4	1 133.8	63.6	4.2	418.3
	Maryland	23	14	2.3	77.6	1.1	2.2	31.1	209.4	244.3	456.5	(D)	2.6	144.1
	Massachusetts	E1 20	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.4	122.3
	Michigan	E1 25	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	107.4
	Mississippi	22	5	1.2	36.5	.8	1.8	23.1	294.6	213.7	512.1	18.3	1.3	154.2
	Missouri	26	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8	52.5
	New Jersey	64	33	3.3	107.3	1.9	3.9	57.4	423.1	437.3	862.7	16.8	4.4	291.2
	New York	E2 52	19	1.5	43.8	.9	1.9	24.7	210.3	180.0	389.6	19.2	3.5	273.3
	North Carolina	32	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.0	292.1
	Ohio	83	38	7.3	232.4	3.9	7.8	119.6	825.4	733.1	1 556.2	(D)	8.8	642.2
	Oklahoma	29	7	.7	18.8	.4	1.0	11.0	62.2	53.3	113.7	18.5	.9	65.0
	Pennsylvania	94	31	3.1	89.0	1.7	3.6	44.6	360.4	285.3	651.2	22.8	4.4	277.4
	South Carolina	18	8	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	Tennessee	41	19	12.1	391.6	6.3	13.2	183.2	1 462.1	590.7	2 058.0	72.9	16.4	1 336.6
	Texas	133	56	5.9	190.4	3.7	7.8	114.2	949.9	888.8	1 837.6	119.2	6.2	614.1
	Virginia	25	9	3.0	95.3	1.7	3.9	51.2	309.9	60.7	368.6	6.2	3.2	250.2
	Washington	32	10	9.7	384.6	3.5	3.9	126.9	1 013.9	147.8	1 162.2	11.1	6.3	521.3
	West Virginia	22	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.4	114.4
	Wyoming	12	3	.5	18.5	.3	.6	13.6	177.0	142.7	316.7	(D)	(NA)	(NA)
282	Plastics materials and synthetics	626	420	122.5	4 012.8	83.8	176.6	2 449.9	17 737.5	23 269.1	40 851.4	1 900.6	141.0	9 401.5
	Alabama	10	6	2.4	74.0	1.6	3.9	44.4	251.7	327.5	577.7	46.5	FF	(D)
	California	E1 76	32	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.4	196.3
	Connecticut	15	9	1.4	43.0	1.0	2.2	26.6	222.3	240.2	455.2	14.3	1.1	81.6
	Delaware	5	5	3.0	97.4	2.3	4.7	67.4	399.6	495.7	892.5	26.3	3.8	256.3
	Florida	15	9	3.0	101.4	2.1	5.0	66.6	491.6	623.0	1 100.8	32.0	4.5	244.2

See footnotes at end of table.

Table 2. Industry Group Statistics by State: 1987 and 1982—Con.

[Includes industry groups with 450 manufacturing employees or more. Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes.]

1987 SIC code	Industry group and geographic area	1987											1982		
		All establishments ²		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materials ⁴ (million dollars)	Value of shipments ⁴ (million dollars)	New capital expend- itures (million dollars)	All em- ployees ³ (1,000)	Value added by manu- facture (million dollars)	
		Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)							
28	Chemicals and allied products—Con.														
282	Plastics materials and synthetics—Con.														
	Georgia	-	21	18	3.1	87.5	2.2	4.7	53.2	257.5	495.7	760.2	44.9	3.4	184.4
	Illinois	-	34	27	3.7	127.5	2.4	5.6	80.0	806.4	1 246.0	2 038.9	(D)	3.5	299.8
	Indiana	-	11	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Iowa	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
	Kentucky	-	12	10	2.7	100.6	1.8	3.8	60.7	388.0	751.9	1 150.9	82.8	4.6	408.8
	Louisiana	-	21	20	4.6	181.9	3.1	6.9	116.9	1 239.1	1 895.6	3 140.7	122.8	3.8	296.0
	Massachusetts	-	18	11	.8	26.9	.3	.7	7.0	126.0	188.5	313.4	(D)	2.7	116.1
	Michigan	-	19	11	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.6	172.4
	Mississippi	-	9	8	1.2	38.7	.8	1.7	23.7	114.3	320.3	443.9	73.4	1.5	69.6
	New Jersey	E1	42	31	3.7	125.5	2.4	5.1	76.7	506.5	757.2	1 273.4	31.2	4.9	411.6
	New York	-	26	15	3.6	129.9	2.1	4.6	66.3	504.2	406.6	879.2	(D)	3.5	308.7
	North Carolina	-	28	27	10.7	305.6	8.1	16.6	205.8	1 052.9	1 203.3	2 225.6	148.0	12.2	653.5
	Ohio	-	32	24	3.5	128.1	2.3	5.1	78.4	520.5	994.1	1 483.2	70.7	4.2	392.0
	Pennsylvania	-	29	18	4.3	143.5	2.9	6.0	86.2	371.5	759.2	1 123.0	56.7	4.6	214.1
	South Carolina	-	25	25	15.3	432.1	11.4	22.9	278.6	1 631.8	1 948.4	3 557.7	254.4	17.9	1 047.8
	Tennessee	-	17	14	12.3	366.2	8.4	17.7	214.3	705.7	1 310.9	2 005.3	(D)	17.4	606.2
	Texas	-	69	50	14.9	592.1	9.1	19.8	332.2	3 721.5	5 284.8	9 027.2	286.8	13.8	1 459.2
	Virginia	-	14	12	14.0	417.5	10.8	21.3	285.2	1 609.7	1 293.2	2 893.5	(D)	15.9	998.9
	West Virginia	-	4	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
283	Drugs	-	1 356	660	171.9	5 303.8	79.6	155.1	1 895.9	28 160.6	11 409.9	39 263.4	1 749.1	165.7	16 980.6
	Arizona	-	14	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	California	-	206	93	19.6	601.1	7.5	14.7	141.9	1 633.6	1 155.8	2 773.2	124.7	14.9	937.2
	Colorado	-	16	8	1.0	27.0	.6	1.2	12.8	86.2	65.1	149.3	10.1	CC	(D)
	Connecticut	-	19	13	2.7	87.0	1.1	2.4	17.7	321.2	130.0	408.0	(D)	4.4	362.5
	Delaware	-	5	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	Florida	E2	55	15	1.9	44.7	1.2	2.3	23.0	171.1	71.2	241.6	12.3	3.6	212.6
	Georgia	-	31	14	1.2	36.4	.7	1.4	17.3	168.4	178.2	339.6	11.3	1.8	295.0
	Illinois	-	50	25	13.0	442.3	3.5	7.0	92.1	1 196.5	419.3	1 616.5	(D)	11.0	966.6
	Indiana	-	30	20	15.8	613.5	5.0	9.9	144.6	2 806.2	1 189.0	3 986.5	140.3	16.2	1 462.5
	Iowa	-	25	10	1.5	35.3	.9	1.8	17.4	150.9	95.3	236.4	(D)	1.1	101.8
	Kansas	-	15	9	1.7	43.7	.7	1.5	13.6	398.4	131.0	536.3	(D)	1.8	178.9
	Louisiana	E4	13	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	34.6
	Maryland	-	33	11	2.8	75.2	1.5	3.3	30.3	229.0	138.8	365.0	17.9	2.0	145.7
	Massachusetts	E4	48	24	3.0	82.1	1.1	2.0	19.3	238.3	125.6	367.5	19.5	1.7	90.5
	Michigan	-	31	19	6.1	196.3	4.9	10.1	152.0	1 244.8	464.2	1 692.7	(D)	5.8	728.1
	Minnesota	E1	25	13	1.0	22.5	.6	1.0	9.8	68.4	64.5	133.2	(D)	.5	30.9
	Mississippi	-	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Missouri	-	40	16	5.0	175.6	2.2	4.5	54.2	1 242.6	352.5	1 558.5	68.2	5.4	529.1
	Nebraska	-	15	10	1.3	27.7	.9	1.7	15.4	187.6	74.0	253.8	8.8	1.1	140.0
	New Jersey	-	140	91	28.4	973.2	12.9	24.2	362.5	5 535.0	2 049.9	7 536.1	320.0	31.6	3 021.9
	New York	-	133	69	15.6	411.1	9.0	17.3	213.3	2 792.0	821.3	3 645.9	130.1	16.7	2 237.5
	North Carolina	-	36	22	8.6	205.1	5.9	11.3	108.8	2 406.7	805.5	3 173.7	141.5	8.3	883.1
	Ohio	-	36	21	4.2	127.6	1.3	2.3	22.0	591.5	173.2	759.0	(D)	3.4	286.7
	Pennsylvania	-	65	39	15.7	535.8	7.2	13.9	207.5	3 400.8	1 200.7	4 558.7	185.2	13.7	2 357.0
	South Carolina	-	18	12	1.5	31.5	1.1	2.0	19.6	349.5	134.5	481.2	14.0	.8	134.7
	Tennessee	-	15	8	3.9	74.8	1.7	3.2	29.7	510.6	167.5	655.8	(D)	3.1	244.6
	Texas	-	68	23	5.0	126.1	2.7	5.4	62.2	552.5	160.9	712.7	(D)	3.3	298.5
	Virginia	-	13	8	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.3	504.6
	Wisconsin	-	20	11	.8	17.0	.4	.8	7.8	72.6	40.7	110.1	3.2	.6	34.2
284	Soaps, cleaners, and toilet goods	-	2 401	813	119.2	3 098.9	72.2	145.7	1 581.5	21 651.8	13 196.1	34 747.5	785.2	127.3	15 281.8
	Alabama	E9	15	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	74.4
	Arizona	-	19	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Arkansas	-	10	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	California	E1	341	110	10.8	265.4	6.3	12.4	127.8	1 440.6	1 109.3	2 560.1	67.9	11.3	1 060.0
	Connecticut	-	39	12	2.2	63.6	1.0	2.1	21.6	578.7	232.6	807.3	9.8	2.6	449.7
	Delaware	-	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Florida	E2	113	22	2.4	53.9	1.2	2.3	18.9	239.7	153.8	387.7	7.3	1.8	140.9
	Georgia	E1	88	39	4.8	127.6	2.7	5.5	59.6	758.7	552.2	1 315.1	33.4	3.6	478.4
	Illinois	-	162	72	11.9	313.9	7.8	16.1	182.6	2 452.3	1 305.3	3 757.3	90.6	11.7	1 836.8
	Indiana	-	43	17	2.7	99.6	1.7	3.6	67.7	630.1	494.3	1 103.0	22.7	2.9	394.5
	Iowa	-	14	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	Kansas	-	19	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Louisiana	-	29	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	162.7
	Maryland	-	31	11	3.4	107.6	2.0	4.3	61.1	639.1	546.0	1 184.6	38.0	3.1	492.1
	Massachusetts	E1	70	17	2.4	72.9	1.4	3.1	37.5	302.8	248.8	555.0	22.1	2.9	318.7
	Michigan	E1	94	21	4.5	120.0	2.1	3.9	47.1	558.9	401.7	940.6	29.9	5.0	414.0
	Minnesota	-	42	14	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.9	281.1
	Mississippi	E1	16	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
	Missouri	-	72	28	4.0	109.9	2.6	5.2	64.1	742.0	628.2	1 378.5	35.8	5.7	610.1
	New Jersey	-	221	116	19.4	513.3	11.3	23.4	238.5	3 299.7	1 563.8	4 816.0	82.2	25.0	2 258.7
	New York	E1	223	71	12.1	260.7	7.6	14.6	119.5	1 680.8	895.7	2 567.7	46.9	11.7	1 408.2
	North Carolina	E1	66	29	4.8	110.8	3.2	6.0	56.5	1 019.8	435.4	1 459.9	29.5	3.2	302.3
	Ohio	-	106	43	6.5	193.2	4.4	8.9	117.2	2 035.9	1 531.7	3 568.3	75.8	7.1	1 664.4
	Pennsylvania	E2	92	26	2.2	50.0	1.2	2.3	21.5	212.9	176.3	385.4	9.4	2.8	203.0
	Rhode Island	E1	17	5	.5	11.1	.3	.5	5.9	27.8	25.3	52.7	1.1	CC	(D)

See footnotes at end of table.

Table 2. Industry Group Statistics by State: 1987 and 1982—Con.

[Includes industry groups with 450 manufacturing employees or more. Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes.]

1987 SIC code	Industry group and geographic area	1987											1982		
		All establishments ²		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materials ⁴ (million dollars)	Value of shipments ⁴ (million dollars)	New capital expend- itures (million dollars)	All em- ployees ³ (1,000)	Value added by manu- facture (million dollars)	
		E ¹	Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							Wages (million dollars)
28	Chemicals and allied products—Con.														
284	Soaps, cleaners, and toilet goods—Con.														
	South Carolina	-	35	13	1.4	34.1	.9	1.9	18.9	191.3	147.6	337.2	9.1	1.3	132.4
	Tennessee	-	43	16	2.3	50.7	1.5	3.0	22.7	286.0	140.1	426.6	(D)	2.3	191.4
	Texas	E1	153	33	3.6	93.5	2.2	4.4	45.6	718.8	467.5	1 181.3	(D)	5.1	499.0
	Virginia	-	23	6	1.5	35.7	.9	1.8	19.6	261.2	96.4	352.6	9.8	1.6	171.4
	Wisconsin	-	55	24	2.5	79.3	1.5	3.1	39.8	771.7	351.7	1 132.0	22.4	3.0	506.5
285	Paints and allied products	E1	1 428	626	55.2	1 491.6	28.3	56.3	628.2	6 220.7	6 509.9	12 702.4	275.1	54.1	3 952.5
	Alabama	-	15	9	.5	16.7	.3	.6	6.3	49.5	72.0	120.4	(D)	.5	26.2
	California	E1	201	77	6.4	177.6	3.2	6.5	72.3	748.1	787.4	1 523.4	27.1	6.5	558.3
	Florida	E1	81	21	1.6	35.0	.7	1.5	13.5	135.8	143.4	278.6	3.9	1.5	83.0
	Georgia	-	43	21	1.7	41.4	.9	1.8	19.8	196.0	274.7	486.1	11.9	1.6	163.3
	Illinois	-	118	66	5.4	156.1	2.9	5.9	67.9	620.8	692.4	1 294.2	(D)	5.9	408.0
	Indiana	E1	36	16	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	59.2
	Iowa	-	12	6	.5	14.4	.4	.8	9.3	57.9	83.4	143.3	.6	CC	(D)
	Kentucky	E2	26	19	1.4	38.7	.7	1.4	16.8	300.9	199.0	500.5	3.5	1.4	168.3
	Maryland	-	21	13	1.2	29.2	.7	1.5	13.8	223.6	211.2	432.4	7.7	1.2	117.8
	Massachusetts	E2	41	20	1.2	35.1	.6	1.2	13.3	134.2	113.2	248.0	(D)	1.4	109.5
	Michigan	-	66	28	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.8	235.9
	Minnesota	E1	20	8	.8	24.5	.2	.4	5.2	59.9	58.1	119.9	(D)	.5	27.1
	Missouri	E1	61	22	2.1	50.3	1.0	2.0	21.6	214.2	213.0	424.9	4.8	2.2	189.0
	New Jersey	-	102	51	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.3	282.8
	New York	E2	79	27	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.4	119.8
	North Carolina	-	27	16	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.8	86.7
	Ohio	-	81	46	6.6	187.5	3.0	6.1	72.6	757.1	857.2	1 606.6	64.3	5.0	374.9
	Oregon	E3	20	7	.5	14.1	.3	.6	5.4	47.1	58.4	104.8	2.1	.4	17.7
	Pennsylvania	-	57	28	3.2	88.9	1.6	3.2	39.2	290.9	335.8	631.1	12.1	3.2	158.5
	Tennessee	E2	29	9	.9	20.7	.6	1.1	9.9	61.3	113.3	175.4	5.0	.7	40.2
	Texas	E1	91	40	3.1	75.8	1.6	3.2	34.5	380.1	430.0	812.9	(D)	3.5	294.4
	Virginia	-	18	10	1.0	24.7	.5	1.1	12.3	173.6	95.1	266.5	5.4	CC	(D)
	Washington	E2	24	7	.5	13.1	.2	.4	4.0	46.5	39.8	85.9	1.7	.6	34.6
	Wisconsin	-	38	12	1.3	34.7	.7	1.3	13.3	145.3	163.4	310.6	6.4	1.2	80.2
286	Industrial organic chemicals	-	962	581	125.7	4 541.3	73.4	154.2	2 439.0	21 153.2	30 003.6	51 158.0	2 399.9	143.6	12 340.5
	Alabama	-	20	13	2.3	79.0	1.4	2.9	44.8	371.9	626.2	980.7	65.6	3.0	221.7
	Arkansas	-	17	4	1.5	47.9	1.1	2.4	33.3	266.0	173.9	443.3	63.3	1.6	129.2
	California	E1	69	26	3.5	107.1	1.6	3.4	51.6	47.9	772.9	817.0	57.6	2.8	284.0
	Connecticut	-	17	10	4.1	163.0	2.0	4.7	71.8	416.7	309.2	725.5	36.2	1.5	84.3
	Delaware	-	10	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.4	104.5
	Florida	-	18	11	1.5	43.0	1.0	2.1	24.4	157.8	228.6	392.4	(D)	2.1	142.3
	Georgia	E1	27	10	1.2	39.7	.7	1.4	22.2	258.8	261.2	511.2	65.1	2.1	150.3
	Illinois	-	52	37	5.3	180.7	3.3	6.9	106.4	982.2	1 300.7	2 263.3	72.6	4.7	454.8
	Indiana	E2	10	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	Kansas	-	13	8	1.2	41.7	.7	1.6	23.1	97.1	194.4	288.0	(D)	.8	55.5
	Kentucky	-	13	11	3.3	117.3	2.3	4.7	75.1	509.0	625.0	1 123.8	(D)	2.2	155.2
	Louisiana	-	37	29	11.1	456.0	6.4	13.9	235.5	3 226.6	4 272.7	7 509.5	365.4	15.7	1 339.9
	Maryland	-	5	4	.7	24.7	.4	.8	12.4	116.8	192.1	313.4	(D)	.6	135.2
	Massachusetts	E1	19	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.6	87.9
	Michigan	E1	24	16	5.6	201.6	2.9	6.1	96.7	749.9	645.4	1 371.0	129.3	8.1	279.5
	Mississippi	-	7	5	.5	11.2	.4	.8	7.3	51.4	120.4	169.1	9.7	.3	24.9
	Missouri	-	35	16	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.2	265.1
	New Jersey	-	108	70	11.6	428.8	6.8	13.6	221.9	1 662.6	1 871.4	3 531.0	83.8	14.4	887.6
	New York	E1	56	35	5.3	169.0	2.9	5.9	81.3	579.5	499.3	1 079.2	43.2	5.5	411.5
	North Carolina	-	31	18	2.1	65.0	1.3	2.7	35.9	352.1	401.2	763.4	22.7	2.3	154.5
	Ohio	-	66	43	5.6	183.4	3.3	7.0	102.4	794.7	1 018.7	1 786.0	59.7	5.3	344.3
	Pennsylvania	-	36	23	3.4	110.2	2.3	4.2	68.4	439.9	732.3	1 175.8	43.5	4.8	400.3
	Rhode Island	-	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	South Carolina	-	25	20	2.5	75.0	1.4	3.1	35.5	445.7	523.0	949.8	32.5	FF	(D)
	Tennessee	-	16	11	5.2	166.7	3.2	6.7	91.5	494.4	854.2	1 354.8	(D)	6.8	386.1
	Texas	-	106	81	29.2	1 228.6	15.8	34.2	640.2	7 299.9	11 645.6	18 905.3	774.2	32.9	4 353.0
	Virginia	-	21	9	2.3	76.7	1.7	3.3	50.5	143.0	453.4	597.8	32.4	EE	(D)
	West Virginia	-	19	18	7.3	250.7	5.0	10.3	165.3	655.9	1 223.2	2 035.6	118.1	9.9	726.6
	Wisconsin	-	15	8	1.2	33.2	.6	1.2	13.3	111.6	116.5	212.9	17.8	.9	82.9
287	Agricultural chemicals	-	970	334	40.3	1 170.8	24.4	50.9	622.5	6 339.8	7 796.5	14 267.3	360.9	50.9	5 096.9
	Alabama	-	26	5	1.6	50.8	1.0	2.1	26.4	297.4	217.8	521.6	(D)	2.0	172.4
	Arkansas	-	12	6	.5	13.2	.3	.7	8.0	107.9	76.6	174.7	5.6	.6	105.4
	California	E1	78	25	1.8	50.1	1.0	2.2	24.1	251.7	283.6	546.3	11.1	2.7	240.4
	Florida	-	79	42	6.5	189.4	4.2	9.1	107.3	847.2	1 861.8	2 740.4	39.3	8.0	510.8
	Georgia	E1	36	17	1.5	37.3	.9	1.8	17.2	193.3	243.1	436.9	6.5	2.8	142.3
	Idaho	-	8	2	.9	24.2	.5	1.0	13.1	63.0	100.1	160.0	(D)	EE	(D)
	Illinois	E1	39	11	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	125.2
	Indiana	-	25	9	1.8	67.1	.9	1.7	28.3	285.3	234.6	515.4	(D)	1.8	274.2
	Iowa	-	39	9	1.2	36.1	.8	1.7	22.1	235.6	272.3	524.3	(D)	1.7	433.8
	Louisiana	-	27	16	3.1	111.9	1.9	3.9	65.1	1 029.5	1 006.2	2 043.0	51.6	4.7	664.5
	Mississippi	E1	9	4	.8	24.3	.4	1.0	12.7	47.6	68.5	142.2	1.6	1.5	120.4
	Missouri	-	33	15	2.9	96.8	1.5	3.3	39.4	618.0	413.6	1 051.0	36.5	2.7	401.5
	Nebraska	-	15	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	149.8
	New York	E1	30	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	46.9
	North Carolina	E1	34	11	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.6	129.9

See footnotes at end of table.

Table 2. Industry Group Statistics by State: 1987 and 1982—Con.

[Includes industry groups with 450 manufacturing employees or more. Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes.]

1987 SIC code	Industry group and geographic area	1987											1982		
		E ¹	All establishments ²		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materials ⁴ (million dollars)	Value of shipments ⁴ (million dollars)	New capital expendi- tures (million dollars)	All em- ployees ³ (1,000)	Value added by manu- facture (million dollars)
			Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
28	Chemicals and allied products—Con.														
287	Agricultural chemicals—Con.														
	Ohio	—	50	18	1.6	38.4	.9	1.6	16.3	247.9	319.0	572.1	(D)	2.1	214.4
	Oklahoma	—	10	6	.5	15.5	.3	.7	10.2	108.6	196.2	313.1	(D)	.7	94.2
	Pennsylvania	E2	40	14	1.0	20.5	.6	1.1	9.3	69.2	119.0	187.9	3.3	1.0	49.1
	Tennessee	—	17	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9	89.9
	Texas	—	67	23	3.0	96.6	1.7	3.5	48.2	577.4	498.0	1 090.7	(D)	3.8	426.7
	Virginia	E3	27	8	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8	26.5
	Washington	E1	24	7	.5	12.7	.3	.7	7.3	43.9	72.3	120.3	1.4	.5	27.6
	West Virginia	—	2	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
289	Miscellaneous chemical products	E1	2 903	932	85.4	2 298.4	51.0	104.4	1 182.6	8 273.6	8 542.9	16 782.2	445.8	82.3	5 432.6
	Alabama	—	32	10	1.6	51.1	1.1	2.4	32.1	366.0	165.5	530.3	(D)	1.7	168.2
	Arkansas	E1	22	8	.6	15.3	.3	.6	6.5	44.7	76.3	120.7	10.9	.3	18.7
	California	E2	331	97	7.0	188.6	4.1	8.3	87.4	607.5	579.8	1 184.4	24.0	7.9	437.9
	Connecticut	E1	45	15	2.2	65.5	.9	1.9	18.9	134.4	109.2	246.3	9.4	2.3	122.2
	Florida	E4	100	14	1.7	42.4	1.1	2.3	22.9	127.2	106.5	234.8	8.2	.9	35.3
	Georgia	E1	101	33	2.2	58.1	1.3	2.6	26.4	275.8	298.3	572.5	8.4	1.9	166.1
	Illinois	E1	206	87	6.2	177.3	3.6	7.5	93.7	929.6	1 023.3	1 941.1	34.5	6.7	609.3
	Indiana	—	61	21	1.2	27.8	.7	1.5	14.2	112.8	184.8	298.8	(D)	.9	58.0
	Kansas	—	24	15	1.9	49.3	1.3	2.6	30.5	145.4	85.7	233.4	(D)	2.0	135.9
	Kentucky	—	41	13	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9	73.0
	Louisiana	—	40	15	1.3	42.8	.9	2.0	28.4	186.1	248.7	431.7	25.4	1.4	170.5
	Maryland	E1	35	12	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	57.4
	Massachusetts	E1	77	37	2.7	78.9	1.4	2.8	34.2	212.2	230.4	441.8	24.2	2.4	134.8
	Michigan	E1	125	47	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.6	252.9
	Minnesota	—	50	17	2.0	59.6	1.1	2.4	30.8	243.8	229.4	470.7	(D)	1.7	121.7
	Missouri	—	72	28	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.2	142.1
	New Jersey	E2	218	84	6.7	187.3	4.0	8.1	96.0	715.0	762.4	1 475.0	39.7	6.8	470.9
	New York	E1	147	38	4.6	135.8	3.0	6.0	77.3	421.9	476.4	891.6	13.2	4.6	340.0
	North Carolina	E1	67	21	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.0	97.3
	Ohio	—	202	81	7.8	210.7	4.3	8.8	99.2	725.9	923.8	1 635.1	43.6	7.7	415.3
	Oregon	E1	38	9	.5	14.6	.3	.6	7.2	56.7	125.4	183.0	2.7	.4	17.7
	Pennsylvania	E2	151	55	4.2	104.5	2.4	4.7	50.5	326.3	321.4	648.2	15.2	4.2	206.5
	South Carolina	E2	26	12	1.1	31.9	.7	1.4	16.3	101.1	81.3	181.0	6.6	.8	46.6
	Tennessee	E2	65	18	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.6	129.1
	Texas	E1	224	60	5.4	137.0	3.5	7.2	79.3	569.1	518.8	1 091.7	35.5	5.9	496.9
	Utah	E2	22	7	.6	13.3	.4	.7	8.4	37.8	33.5	71.7	3.1	.5	22.2
	Virginia	—	34	9	4.9	121.0	3.4	6.3	73.1	286.5	89.4	375.1	(D)	3.6	158.6
	West Virginia	—	13	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	Wisconsin	E1	77	27	1.7	40.7	1.1	2.2	21.1	161.2	187.3	351.7	5.9	1.5	94.6
29	Petroleum and coal products	—	2 232	753	115.9	3 996.2	76.4	158.0	2 458.7	18 518.3	112 776.8	130 414.0	2 340.6	151.6	22 068.5
	Alabama	E1	35	19	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.7	100.9
	Arkansas	E1	22	13	1.2	29.6	.7	1.5	15.9	87.6	511.3	591.9	7.4	1.6	620.8
	California	—	240	85	15.1	578.2	9.6	19.6	340.3	2 913.7	14 341.9	17 059.3	617.1	18.8	4 155.5
	Colorado	—	25	7	.6	16.8	.4	.8	11.7	55.8	498.9	558.7	7.3	.8	57.3
	Connecticut	E1	29	7	.7	24.2	.5	1.0	14.8	102.2	99.3	201.6	8.9	.6	49.8
	Delaware	—	15	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Florida	E2	52	19	1.2	30.9	.7	1.6	15.9	101.5	206.7	307.4	10.9	1.4	162.6
	Georgia	—	59	17	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Illinois	E1	108	43	6.8	237.6	4.4	9.0	143.3	642.7	6 678.9	7 285.8	(D)	8.6	1 070.9
	Indiana	—	54	15	3.5	120.3	2.4	5.3	79.2	557.9	3 127.2	3 657.2	(D)	3.8	199.9
	Kansas	—	35	18	2.8	89.3	2.1	3.8	63.4	385.9	2 601.9	2 962.0	41.7	4.2	243.2
	Kentucky	—	39	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Louisiana	—	60	37	9.7	366.6	6.2	12.7	218.8	1 690.6	16 349.5	18 028.8	227.2	13.5	2 479.2
	Maryland	—	34	9	1.2	33.7	.7	1.5	18.8	147.6	232.0	370.3	10.9	1.1	103.5
	Massachusetts	E3	61	16	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	99.2
	Michigan	—	74	19	1.8	58.1	1.1	2.3	32.0	264.5	1 097.2	1 326.3	(D)	1.9	258.7
	Minnesota	—	33	16	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Mississippi	—	25	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Missouri	E1	50	16	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.6	81.4
	Montana	—	8	5	.8	26.8	.5	1.1	17.6	49.9	855.7	896.4	21.5	.9	135.9
	New Jersey	—	75	28	4.1	151.1	2.4	5.2	85.4	489.1	3 975.7	4 452.7	48.9	7.3	587.4
	New Mexico	E2	13	5	.6	22.5	.3	.7	10.5	119.7	552.0	672.4	(D)	.8	276.5
	New York	E2	162	38	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.1	166.0
	North Carolina	E1	35	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	28.2
	Ohio	—	193	54	5.4	167.5	3.3	6.8	94.4	523.0	4 206.1	4 700.4	68.7	5.7	1 072.0
	Oklahoma	—	49	17	3.1	98.4	2.2	4.5	64.9	343.5	2 860.9	3 190.3	59.4	4.9	625.9
	Oregon	E1	23	8	.5	15.5	.4	.8	10.0	64.8	115.8	176.3	(D)	.7	54.1
	Pennsylvania	—	170	56	7.6	245.1	4.9	10.0	148.6	1 204.3	6 271.9	7 402.4	144.2	9.9	671.0
	Tennessee	—	48	9	.9	22.6	.6	1.1	12.2	75.8	597.3	672.4	(D)	1.2	47.8
	Texas	—	184	76	25.2	931.4	16.8	35.0	587.7	4 810.8	30 550.7	35 224.0	463.5	39.4	4 778.3
	Utah	E1	19	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	223.2
	Washington	—	31	12	2.3	86.5	1.5	3.3	54.7	631.7	3 044.9	3 654.7	76.6	2.9	616.0
	West Virginia	E2	11	6	.7	15.9	.5	1.0	10.9	42.1	176.0	212.8	2.6	.8	77.7
	Wyoming	—	17	9	1.1	36.9	.8	1.8	26.4	66.1	1 011.5	1 066.5	7.8	EE	(D)
291	Petroleum refining	—	308	221	74.6	2 845.0	50.0	103.3	1 796.7	14 218.9	104 800.9	118 186.2	2 035.0	(NA)	(NA)
	Alabama	E1	6	5	.5	17.8	.3	.8	11.3	63.0	768.6	829.6	3.7	(NA)	(NA)
	Arkansas	—	6	4	.7	19.0	.4	.7	10.1	57.7	448.5	498.8	(D)	(NA)	(NA)
	California	—	40	31	11.6	460.3	7.3	14.8	272.4	2 393.1	13 436.8	15 639.2	(D)	(NA)	(NA)
	Delaware	—	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Illinois	E1	8	7	4.3	166.8	3.0	6.2	108.0	357.7	6 102.6	6 427.9	106.3	(NA)	(NA)

See footnotes at end of table.

Table 2. Industry Group Statistics by State: 1987 and 1982—Con.

[Includes industry groups with 450 manufacturing employees or more. Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes.]

1987 SIC code	Industry group and geographic area	1987											1982		
		All establishments ²		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materials ⁴ (million dollars)	Value of shipments ⁴ (million dollars)	New capital expendi- tures (million dollars)	All em- ployees ³ (1,000)	Value added by manu- facture (million dollars)	
		E ¹	Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							Wages (million dollars)
29	Petroleum and coal products—Con.														
291	Petroleum refining— Con.														
	Indiana	-	8	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
	Kansas	-	11	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
	Kentucky	-	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
	Louisiana	-	26	22	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
	Michigan	-	5	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
	Minnesota	-	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
	Mississippi	-	8	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
	Montana	-	5	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
	New Jersey	-	5	5	2.2	91.6	1.4	3.1	56.4	292.3	3 572.5	3 854.5	(NA)	(NA)	
	New Mexico	E2	4	3	.5	19.7	.2	.5	8.7	102.4	520.3	623.2	(D)	(NA)	
	Ohio	-	8	6	1.9	71.1	1.2	2.9	46.7	167.5	3 533.8	3 681.7	(D)	(NA)	
	Oklahoma	-	12	7	2.0	69.8	1.5	3.0	48.6	226.9	2 671.1	2 882.9	54.3	(NA)	
	Pennsylvania	-	19	16	4.8	167.5	3.1	6.5	108.4	948.2	5 763.7	6 640.3	113.3	(NA)	
	Texas	-	59	39	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	
	Utah	E1	9	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	
	Washington	-	8	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	
	Wyoming	-	9	6	.9	30.5	.6	1.4	21.7	53.3	977.4	1 017.0	(D)	(NA)	
295	Asphalt paving and roofing materials	E1	1 367	345	28.1	785.7	19.7	41.1	504.0	2 886.9	4 905.4	7 749.1	213.2	29.5	1 742.8
	Alabama	-	25	13	1.2	32.0	.8	1.7	19.5	133.6	196.3	328.8	8.5	EE	(D)
	California	E1	142	32	2.3	82.1	1.6	3.4	51.2	301.0	559.3	857.7	(D)	2.6	180.1
	Connecticut	-	24	4	.6	21.9	.4	.9	14.0	95.9	87.6	183.7	8.6	.5	45.1
	Florida	E1	41	17	1.1	29.0	.7	1.5	14.9	92.4	175.2	266.5	(D)	1.2	74.3
	Georgia	-	47	11	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9	56.3
	Illinois	E1	48	13	1.2	31.8	.7	1.5	19.0	122.2	209.8	329.3	(D)	1.4	69.0
	Indiana	E1	35	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8	52.8
	Maryland	-	26	4	.7	20.6	.5	1.1	14.0	118.9	136.5	250.9	(D)	.8	38.0
	Massachusetts	E2	47	12	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	Minnesota	-	21	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	38.2
	Missouri	E1	35	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	48.5
	New Jersey	E1	46	14	1.1	34.1	.7	1.4	19.0	125.4	192.2	316.6	7.8	1.9	95.6
	New York	E2	138	33	1.9	58.6	1.3	2.8	36.8	231.6	319.1	548.6	(D)	EE	(D)
	North Carolina	E1	31	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	27.1
	Ohio	E1	146	32	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.2	151.5
	Oklahoma	E1	22	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	25.4
	Oregon	E2	15	7	.5	12.9	.4	.7	8.7	39.4	61.4	98.5	(D)	.6	28.9
	Pennsylvania	E2	107	18	1.5	38.3	1.0	2.1	24.4	129.9	252.7	381.2	20.1	1.6	91.3
	Tennessee	E2	38	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	Texas	E1	62	29	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.0	147.2
	Washington	-	15	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	54.0
299	Miscellaneous petroleum and coal products	E1	557	187	13.1	365.4	6.7	13.7	158.0	1 412.5	3 070.4	4 478.7	92.4	13.8	1 078.9
	California	E1	58	22	1.2	35.8	.7	1.4	16.6	219.6	345.8	562.4	(D)	1.7	161.7
	Illinois	E1	52	23	1.4	39.0	.7	1.3	16.3	162.8	366.5	528.6	(D)	1.3	85.5
	Louisiana	-	23	11	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9	142.1
	Michigan	E1	41	13	.9	26.0	.4	.9	10.7	102.3	194.0	295.5	(D)	.8	71.1
	New Jersey	E1	24	9	.7	25.4	.3	.7	10.1	71.3	211.0	281.6	3.5	.8	56.2
	Ohio	E2	39	16	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9	46.0
	Oklahoma	-	15	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	29.7
	Pennsylvania	E1	44	22	1.3	39.2	.7	1.4	15.9	126.2	255.5	380.9	10.8	1.7	80.1
	Texas	E2	63	8	1.2	31.4	.4	.8	11.4	107.1	172.8	275.6	(D)	1.3	77.1
30	Rubber and miscellaneous plastics products	E1	14 589	7 302	831.4	17 581.4	643.5	1 283.4	11 697.2	44 436.8	42 516.5	86 634.3	3 410.3	681.7	27 218.9
	Alabama	-	146	72	17.8	492.2	14.8	31.3	385.8	1 188.6	1 049.0	2 246.5	95.8	14.9	980.7
	Arizona	E2	163	59	4.9	94.5	3.9	7.8	64.1	234.6	237.6	468.0	22.5	4.0	135.2
	Arkansas	-	117	63	8.8	186.3	6.9	13.7	128.2	620.8	518.2	1 127.8	43.2	8.3	432.6
	California	E1	2 012	858	79.9	1 656.5	59.8	120.3	971.8	4 248.1	3 584.0	7 786.7	294.5	66.1	2 398.4
	Colorado	E1	170	56	6.6	153.7	4.0	7.5	77.4	256.0	251.3	506.2	16.3	5.1	242.8
	Connecticut	E3	265	123	11.7	247.1	8.7	17.5	153.8	573.0	479.8	1 054.8	41.9	12.2	423.5
	Delaware	-	45	26	2.5	63.9	1.7	3.4	35.6	206.8	190.1	397.4	(D)	2.4	135.0
	Florida	E2	590	206	17.1	288.9	13.4	26.4	190.4	685.9	683.8	1 359.9	52.6	16.0	421.8
	Georgia	E1	311	182	15.5	280.6	12.5	25.5	200.1	808.4	946.5	1 741.3	57.0	14.9	580.5
	Idaho	-	26	6	.9	13.4	.8	1.7	10.5	98.1	21.8	121.2	2.0	CC	(D)
	Illinois	E1	846	471	55.1	1 212.9	42.7	83.9	800.2	3 078.7	2 949.5	6 000.4	230.0	42.7	1 678.5
	Indiana	E1	515	333	42.9	877.3	33.7	67.8	603.1	2 168.2	2 031.1	4 167.5	182.2	29.9	1 141.1
	Iowa	-	135	71	10.7	240.8	8.6	16.0	176.0	646.6	620.4	1 269.8	49.9	8.9	482.3
	Kansas	-	137	70	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	7.3	295.3
	Kentucky	-	135	92	13.8	282.3	11.4	22.2	208.9	708.5	911.0	1 608.9	82.7	9.2	463.8
	Louisiana	E1	80	27	2.6	51.7	2.1	4.5	36.4	154.5	189.1	339.6	22.8	1.9	77.0
	Maine	-	44	27	4.0	69.6	3.3	6.3	48.3	176.2	165.5	338.5	11.0	5.4	142.6
	Maryland	-	137	65	8.7	186.4	6.7	13.2	123.2	465.6	421.1	884.7	33.8	9.2	346.7
	Massachusetts	E1	562	297	30.1	657.5	22.5	45.2	425.2	1 549.8	1 439.6	2 982.4	129.8	31.4	1 068.7
	Michigan	E1	837	469	49.5	976.6	38.1	75.9	630.2	2 226.9	2 401.6	4 612.7	(D)	29.7	1 024.1
	Minnesota	E1	313	149	13.9	298.8	10.5	20.9	183.1	669.0	658.6	1 320.5	(D)	12.6	473.0
	Mississippi	-	122	67	7.9	134.2	6.3	12.9	96.5	474.3	539.9	1 022.4	24.6	4.9	194.8
	Missouri	E1	270	143	14.9	269.7	11.6	22.2	176.2	804.3	689.2	1 484.3	46.6	12.2	475.1
	Nebraska	-	60	33	5.3	123.3	4.3	9.1	92.2	240.0	239.1	476.7	25.2	4.0	155.1
	Nevada	E1	41	17	1.5	25.4	1.2	2.4	18.8	63.7	90.4	150.1	6.1	1.1	32.9

See footnotes at end of table.

Table 2. Industry Group Statistics by State: 1987 and 1982—Con.

[Includes industry groups with 450 manufacturing employees or more. Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry group and geographic area	1987											1982		
		All establishments ²		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materials ⁴ (million dollars)	Value of shipments ⁵ (million dollars)	New capital expendi- tures (million dollars)	All em- ployees ³ (1,000)	Value added by manu- facture (million dollars)	
		E ¹	Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							Wages (million dollars)
30	Rubber and miscellaneous plastics products— Con.														
	New Hampshire	E1	96	61	9.5	187.0	7.2	14.3	124.8	422.2	319.0	742.8	24.4	8.3	213.7
	New Jersey	E2	728	396	36.1	747.0	27.5	54.9	477.5	1 715.7	1 771.3	3 475.1	124.1	34.8	1 239.0
	New York	E2	818	385	35.5	714.2	27.3	53.2	450.7	1 694.5	1 567.4	3 247.6	120.2	32.7	1 169.5
	North Carolina	-	372	230	35.4	751.6	28.9	56.9	552.0	2 154.8	2 037.8	4 173.3	143.0	26.8	1 141.8
	Ohio	-	1 110	636	86.2	1 916.5	66.7	133.9	1 296.4	4 406.0	4 699.5	9 060.1	368.8	66.9	2 573.6
	Oklahoma	-	130	50	10.5	270.5	8.7	16.9	201.8	972.0	675.0	1 640.1	44.5	10.9	747.0
	Oregon	E2	167	58	4.0	80.0	3.0	5.8	49.1	175.5	203.9	377.9	11.6	2.6	101.8
	Pennsylvania	E1	694	379	40.8	861.3	30.7	60.1	554.0	2 079.5	1 971.6	4 027.6	185.5	34.7	1 290.9
	Rhode Island	E1	130	54	6.0	131.2	4.3	8.4	72.4	255.0	248.6	503.4	20.5	5.6	233.7
	South Carolina	-	168	100	21.0	501.3	16.1	33.3	330.8	1 215.0	1 332.8	2 547.1	111.0	17.2	738.2
	South Dakota	-	27	12	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4	17.4
	Tennessee	-	277	144	23.6	522.2	18.8	38.5	378.4	1 593.3	1 420.4	3 009.1	96.0	19.2	943.3
	Texas	E1	834	368	33.8	704.1	26.0	54.1	466.8	1 918.8	1 921.1	3 841.6	148.4	29.9	1 275.8
	Utah	E2	70	17	1.5	28.9	1.1	2.2	17.8	63.7	47.8	110.7	4.3	1.0	34.0
	Vermont	E4	37	18	1.7	32.1	1.3	2.5	21.1	80.5	65.6	146.4	(D)	1.6	55.3
	Virginia	-	134	85	15.7	369.4	11.9	24.4	254.4	1 146.4	934.1	2 082.3	96.4	11.6	742.0
	Washington	E2	221	79	5.8	115.6	4.3	8.5	76.0	283.8	276.6	558.7	18.2	4.3	183.4
	West Virginia	E2	43	25	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.0	56.4
	Wisconsin	E1	368	206	23.5	486.6	18.5	36.4	330.8	1 121.1	1 013.7	2 132.7	87.1	15.4	569.7
301	Tires and inner tubes	-	163	97	65.4	2 069.9	52.6	103.7	1 596.3	5 559.4	4 864.9	10 427.4	336.7	70.3	4 660.4
	Alabama	-	10	9	10.5	357.0	9.0	19.6	294.8	874.9	631.2	1 519.5	60.8	9.6	721.1
	Arkansas	-	4	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	California	-	14	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	66.0
	Georgia	-	5	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.6	144.8
	Illinois	-	8	5	5.0	166.5	4.0	7.5	130.7	476.9	450.1	925.4	(D)	4.7	288.8
	Indiana	-	5	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Iowa	-	5	4	2.5	73.4	2.1	3.6	57.6	184.3	209.7	398.4	(D)	3.1	204.4
	Kansas	-	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Kentucky	-	4	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Maryland	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Mississippi	-	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	New York	-	4	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	North Carolina	-	11	8	6.6	221.6	5.4	10.5	178.4	650.2	502.4	1 145.1	35.2	6.3	440.8
	Ohio	-	12	11	4.3	127.4	3.0	5.4	78.6	179.1	277.8	460.8	18.9	3.4	170.0
	Oklahoma	-	6	5	5.4	169.7	4.7	8.8	134.9	693.0	392.7	1 083.6	22.0	7.2	604.1
	Pennsylvania	-	9	5	1.2	25.3	.8	1.8	15.8	58.6	38.7	99.9	2.5	1.6	84.1
	South Carolina	-	4	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	Tennessee	-	10	6	5.3	176.1	4.2	8.4	137.0	613.1	393.9	1 000.7	39.2	5.7	396.7
	Texas	-	15	5	2.0	72.8	1.6	2.3	54.8	178.8	177.0	368.4	(D)	3.2	180.2
	Virginia	-	7	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	Wisconsin	-	2	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
302	Rubber and plastics footwear	-	65	38	10.9	153.3	9.1	16.6	103.5	315.8	252.4	557.2	9.4	17.6	360.1
	California	-	8	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Florida	-	5	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	Illinois	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
	Maine	-	4	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	Missouri	-	4	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	North Carolina	-	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Pennsylvania	-	6	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.7	41.6
	Wisconsin	-	3	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
305	Hose and belting and gaskets and packing	-	684	380	51.6	1 158.5	36.5	74.0	717.9	2 657.1	2 009.0	4 647.5	157.9	30.3	997.6
	Arkansas	-	5	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	California	E2	92	42	3.3	76.4	2.3	4.9	45.8	145.2	109.7	253.0	(D)	(NA)	(NA)
	Colorado	-	10	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Connecticut	-	14	6	.5	12.9	.3	.6	6.2	20.3	14.3	34.9	.4	(NA)	(NA)
	Florida	-	8	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Georgia	-	8	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Illinois	-	53	36	6.2	155.5	4.1	8.3	85.9	310.8	309.3	607.2	20.2	(NA)	(NA)
	Indiana	-	14	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Iowa	-	7	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Kansas	-	13	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Kentucky	-	6	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Massachusetts	-	31	18	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Michigan	E1	38	26	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Minnesota	-	17	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Missouri	-	16	14	1.6	28.2	1.2	2.7	19.8	111.3	67.2	179.9	3.2	(NA)	(NA)
	Nebraska	-	6	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	New Jersey	E1	46	20	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	New York	-	28	14	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	North Carolina	E1	25	19	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Ohio	-	56	35	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Pennsylvania	E3	32	13	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Rhode Island	-	4	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	South Carolina	-	11	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Tennessee	-	9	7	1.7	31.5	1.4	2.6	21.9	80.3	87.9	173.8	6.1	(NA)	(NA)
	Texas	E1	45	19	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

Table 2. Industry Group Statistics by State: 1987 and 1982—Con.

[Includes industry groups with 450 manufacturing employees or more. Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes.]

1987 SIC code	Industry group and geographic area	1987											1982		
		All establishments ²		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materials ⁴ (million dollars)	Value of shipments ⁴ (million dollars)	New capital expend- itures (million dollars)	All em- ployees ³ (1,000)	Value added by manu- facture (million dollars)	
		E ¹	Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							Wages (million dollars)
30	Rubber and miscellaneous plastics products— Con.														
305	Hose and belting and gaskets and packing—Con.														
	Utah	-	6	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Virginia	-	7	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Wisconsin	-	15	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
306	Fabricated rubber products, n.e.c.	E1	1 633	788	104.1	2 245.1	78.5	161.1	1 450.4	4 815.0	4 427.3	9 226.9	288.2	(NA)	(NA)
	Alabama	-	22	9	1.2	23.4	1.0	2.1	16.1	57.0	56.3	109.9	1.5	(NA)	(NA)
	Arizona	E1	14	6	.5	9.7	.4	.8	6.4	17.5	17.6	35.5	1.2	(NA)	(NA)
	Arkansas	-	22	14	2.5	52.0	1.8	3.7	31.6	169.5	165.7	335.1	(D)	(NA)	(NA)
	California	E2	196	79	8.2	161.8	6.1	12.7	98.0	335.3	269.1	600.2	14.2	(NA)	(NA)
	Connecticut	E3	33	22	1.8	41.5	1.3	2.7	23.5	87.3	47.8	134.7	4.7	(NA)	(NA)
	Florida	E2	47	17	1.2	24.1	.9	1.9	15.4	54.1	39.7	94.1	2.9	(NA)	(NA)
	Georgia	E2	40	28	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Illinois	E2	80	46	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Indiana	E1	87	56	11.1	246.6	8.1	17.1	158.0	500.0	420.3	920.2	34.4	(NA)	(NA)
	Iowa	-	13	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Maryland	E1	22	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Massachusetts	E1	62	34	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Michigan	E3	84	38	4.8	95.2	3.8	8.0	65.1	184.6	207.2	393.8	(D)	(NA)	(NA)
	Minnesota	E1	30	13	1.3	31.1	.8	1.5	14.8	56.4	36.7	93.4	(D)	(NA)	(NA)
	Mississippi	-	24	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Missouri	E3	28	14	1.5	21.0	1.2	2.5	13.9	46.5	52.5	99.2	2.5	(NA)	(NA)
	New Hampshire	E1	15	9	1.9	34.2	1.5	3.3	23.5	77.0	43.4	121.3	(D)	(NA)	(NA)
	New Jersey	E2	73	33	3.5	75.9	2.5	5.1	43.4	177.3	128.8	303.7	6.4	(NA)	(NA)
	New York	E4	66	24	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	North Carolina	-	45	23	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Ohio	-	203	124	20.5	482.4	15.8	32.8	339.7	946.2	986.7	1 927.1	71.5	(NA)	(NA)
	Oklahoma	E8	17	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Oregon	E2	28	9	.5	9.0	.4	.7	5.4	20.7	15.3	35.3	.9	(NA)	(NA)
	Pennsylvania	E3	66	30	4.3	104.1	2.7	5.4	56.0	218.0	149.0	365.9	11.6	(NA)	(NA)
	South Carolina	-	29	15	4.4	105.6	3.5	6.9	71.2	143.0	339.6	481.7	9.8	(NA)	(NA)
	Tennessee	E1	44	25	4.4	92.1	3.5	7.4	64.6	223.1	253.0	474.1	7.8	(NA)	(NA)
	Texas	E2	96	34	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Virginia	-	13	10	2.1	41.2	1.6	3.1	26.3	100.1	69.9	172.9	3.8	(NA)	(NA)
	West Virginia	E1	7	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Wisconsin	-	30	18	1.8	44.0	1.1	2.3	23.8	118.5	49.2	165.4	7.4	(NA)	(NA)
308	Miscellaneous plastics products, n.e.c.	E1	12 044	5 999	599.4	11 954.5	466.8	928.1	7 829.1	31 089.5	30 963.0	61 775.3	2 618.2	(NA)	(NA)
	Alabama	E1	107	50	5.7	104.5	4.6	9.0	70.4	239.3	347.8	586.8	32.6	(NA)	(NA)
	Arizona	E2	141	50	4.2	81.6	3.3	6.7	55.3	211.5	213.4	420.4	21.1	(NA)	(NA)
	Arkansas	E1	86	42	3.8	65.0	3.0	5.8	43.5	209.8	201.6	410.8	23.0	(NA)	(NA)
	California	E1	1 702	729	66.2	1 376.8	49.8	99.9	802.0	3 653.2	3 120.0	6 735.7	262.3	(NA)	(NA)
	Colorado	E1	148	53	4.0	81.2	2.9	5.3	45.6	219.0	199.1	416.0	13.9	(NA)	(NA)
	Connecticut	E3	218	95	9.4	192.6	7.1	14.2	124.1	465.4	417.7	885.2	36.7	(NA)	(NA)
	Delaware	-	42	23	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Florida	E2	528	181	13.8	235.4	10.8	21.3	155.7	557.6	564.8	1 115.9	45.2	(NA)	(NA)
	Georgia	E1	255	143	11.8	210.5	9.5	19.1	151.0	625.2	712.1	1 323.5	48.8	(NA)	(NA)
	Idaho	-	21	6	.9	12.8	.8	1.7	10.1	96.5	20.6	118.4	1.9	(NA)	(NA)
	Illinois	E1	703	382	39.8	808.8	31.5	61.8	530.5	2 106.5	2 038.8	4 132.7	169.5	(NA)	(NA)
	Indiana	E1	409	267	29.0	550.1	23.4	46.3	384.6	1 424.2	1 457.9	2 864.6	130.9	(NA)	(NA)
	Iowa	-	110	58	6.2	120.0	4.9	9.1	84.4	369.1	316.0	683.3	30.8	(NA)	(NA)
	Kansas	E1	113	57	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Kentucky	-	118	82	9.9	190.7	8.0	15.7	135.9	513.4	606.1	1 116.6	(D)	(NA)	(NA)
	Louisiana	E1	71	24	2.4	46.1	2.0	4.1	33.6	131.8	181.8	309.7	(D)	(NA)	(NA)
	Maine	-	31	19	2.7	49.3	2.1	4.2	33.7	122.4	132.2	252.5	9.6	(NA)	(NA)
	Maryland	-	104	53	6.6	139.7	5.3	10.6	91.8	363.1	343.3	699.0	(D)	(NA)	(NA)
	Massachusetts	E2	463	242	22.6	488.0	17.2	34.8	316.6	1 160.6	1 160.7	2 320.9	106.2	(NA)	(NA)
	Michigan	E1	714	405	42.5	833.4	32.7	64.9	536.6	1 953.2	2 112.6	4 049.2	(D)	(NA)	(NA)
	Minnesota	E1	263	126	11.7	248.8	9.0	18.0	156.3	574.7	586.8	1 154.5	(D)	(NA)	(NA)
	Mississippi	-	92	57	5.7	87.8	4.7	9.2	62.3	277.1	403.5	683.3	18.0	(NA)	(NA)
	Missouri	E1	219	110	10.8	203.7	8.2	15.4	129.7	619.3	540.4	1 150.1	39.7	(NA)	(NA)
	Nebraska	E1	51	25	2.2	37.0	1.8	3.8	25.4	88.1	122.7	209.0	(D)	(NA)	(NA)
	Nevada	E1	36	16	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	New Hampshire	E1	74	48	7.1	145.2	5.3	10.3	96.0	330.1	259.6	590.7	18.5	(NA)	(NA)
	New Jersey	E2	607	341	30.0	613.2	23.1	46.0	398.1	1 412.9	1 538.2	2 942.7	111.1	(NA)	(NA)
	New York	E2	714	343	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	North Carolina	E1	290	179	19.5	354.1	15.8	31.0	249.8	1 074.8	1 170.2	2 237.0	84.3	(NA)	(NA)
	Ohio	-	837	466	57.0	1 210.7	44.7	89.5	816.3	3 050.4	3 223.7	6 228.0	267.6	(NA)	(NA)
	Oklahoma	-	98	35	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Oregon	E2	131	44	3.4	67.7	2.5	5.0	42.2	148.7	184.0	332.0	10.4	(NA)	(NA)
	Pennsylvania	E1	581	327	33.0	690.5	25.4	49.8	454.6	1 717.5	1 718.6	3 412.1	168.4	(NA)	(NA)
	Rhode Island	E1	112	46	5.1	106.8	3.8	7.4	60.9	201.1	212.4	412.0	15.9	(NA)	(NA)
	South Carolina	-	124	73	10.9	248.1	8.5	18.5	164.3	822.4	683.8	1 503.5	85.0	(NA)	(NA)
	Tennessee	-	214	106	12.3	222.5	9.7	20.1	154.9	676.8	685.6	1 360.4	42.9	(NA)	(NA)
	Texas	E1	678	310	26.7	516.5	20.9	44.3	353.8	1 527.4	1 589.4	3 101.1	118.7	(NA)	(NA)
	Utah	E4	61	11	.8	14.3	.6	1.2	9.2	33.5	28.2	60.9	1.8	(NA)	(NA)
	Vermont	E4	35	17	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Virginia	-	107	66	9.7	205.1	7.4	14.8	136.4	602.6	561.1	1 164.1	81.3	(NA)	(NA)
	Washington	E2	194	74	5.4	108.8	4.1	8.0	71.6	263.6	265.3	527.4	15.9	(NA)	(NA)
	West Virginia	E2	30	15	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Wisconsin	E1	318	177	18.2	356.4	14.5	28.1	242.7	879.2	818.6	1 692.4	72.0	(NA)	(NA)

See footnotes at end of table.

Table 2. Industry Group Statistics by State: 1987 and 1982—Con.

[Includes industry groups with 450 manufacturing employees or more. Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry group and geographic area	1987											1982		
		All establishments ²		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materials ⁴ (million dollars)	Value of shipments ⁴ (million dollars)	New capital expend- itures (million dollars)	All em- ployees ³ (1,000)	Value added by manu- facture (million dollars)	
		E ¹	Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							Wages (million dollars)
31	Leather and leather products	-	2 198	915	129.0	1 830.6	109.0	205.9	1 301.5	4 377.9	4 755.0	9 082.4	100.8	199.8	4 772.9
	Arkansas	-	34	24	5.2	62.5	4.5	8.8	45.2	122.7	96.9	215.9	1.0	6.3	115.5
	California	E1	232	66	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	Colorado	-	32	11	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Connecticut	-	14	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9	22.3
	Florida	E1	72	25	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.7	73.3
	Georgia	E1	32	13	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.9	34.5
	Illinois	E1	69	27	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.8	104.0
	Indiana	-	29	17	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.0	61.2
	Iowa	E2	16	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	12.4
	Kentucky	-	11	9	1.8	22.3	1.6	2.9	19.5	72.5	52.8	126.3	(D)	FF	(D)
	Maine	-	61	42	11.5	156.8	9.9	18.9	115.8	365.4	432.8	802.7	(D)	18.6	475.8
	Maryland	-	14	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Massachusetts	E1	176	72	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	17.1	437.9
	Michigan	-	30	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Minnesota	-	18	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.8	69.1
	Mississippi	-	6	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Missouri	-	95	62	13.3	156.6	11.8	22.8	127.3	367.6	339.0	707.4	6.1	17.2	409.3
	New Hampshire	-	31	15	2.8	41.7	2.3	4.2	31.2	72.3	86.2	163.2	(D)	7.2	132.7
	New Jersey	-	75	27	2.8	51.3	2.3	4.4	34.2	133.9	169.8	287.7	1.7	4.5	124.3
	New York	E1	464	153	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	24.3	562.2
	North Carolina	-	36	18	3.5	49.2	2.9	5.3	34.6	126.9	130.7	254.8	(D)	5.1	118.9
	Ohio	-	40	15	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	Oklahoma	-	12	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	Oregon	E1	24	9	.6	10.2	.5	.9	7.2	21.4	19.4	40.8	(D)	BB	(D)
	Pennsylvania	-	112	67	9.8	134.1	8.8	16.3	106.3	265.4	371.4	629.1	6.3	14.4	289.8
	Rhode Island	-	10	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Tennessee	-	66	42	8.3	108.5	6.9	13.7	77.5	275.3	279.8	561.3	(D)	15.2	396.4
	Texas	-	143	52	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	9.0	164.9
	Virginia	-	16	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	Washington	E2	26	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	11.5
	West Virginia	-	5	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.3	48.3
	Wisconsin	-	81	49	6.4	108.6	5.1	9.6	70.0	283.1	377.3	650.7	7.7	8.4	243.2
311	Leather tanning and finishing	-	344	139	14.6	291.6	12.1	24.6	211.9	747.4	1 496.5	2 218.6	27.7	19.5	579.8
	California	E1	22	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	48.3
	Maine	-	7	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.9	37.8
	Massachusetts	E2	53	17	1.1	22.8	.9	1.7	16.2	45.9	104.2	148.4	1.1	2.5	67.0
	Michigan	-	6	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	New Jersey	-	17	5	.7	19.2	.6	1.2	14.0	48.2	90.6	129.7	.5	.9	39.6
	New York	E2	86	26	1.9	33.2	1.6	3.2	25.5	62.5	117.0	183.1	3.0	2.7	65.2
	Pennsylvania	-	17	10	1.4	28.2	1.2	2.5	22.1	72.0	157.8	230.0	2.3	1.1	24.9
	Tennessee	-	10	6	.5	7.4	.3	.7	4.7	20.3	53.0	74.7	(D)	.7	19.8
	Texas	-	17	8	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	6.9
	Wisconsin	-	19	15	1.8	38.1	1.4	2.7	24.7	85.8	217.9	295.7	4.8	2.6	97.2
313	Footwear cut stock	-	127	57	5.0	69.6	4.3	8.5	49.8	141.4	182.9	324.1	3.3	6.8	154.7
	Indiana	-	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
	Massachusetts	-	38	18	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.0	53.4
	Missouri	-	19	13	1.4	17.9	1.2	2.6	13.8	32.1	48.2	80.4	.5	1.6	29.2
314	Footwear, except rubber	-	483	318	71.1	913.0	62.2	116.9	691.0	2 152.5	1 930.8	4 072.6	38.0	121.4	2 808.9
	Arkansas	-	15	14	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5.8	103.0
	California	E3	50	20	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.3	85.0
	Florida	-	17	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.4	36.5
	Georgia	-	7	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	23.0
	Indiana	-	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Kentucky	-	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.6	59.3
	Maine	-	42	30	9.6	122.5	8.2	15.7	92.3	297.4	253.6	558.1	4.1	15.5	420.1
	Massachusetts	-	30	17	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	9.1	230.0
	Michigan	-	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Minnesota	-	5	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Missouri	-	40	36	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	13.6	333.5
	New Hampshire	-	13	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6.2	106.5
	New Jersey	-	8	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9	20.7
	New York	-	44	23	3.7	51.6	3.2	6.2	34.4	98.1	95.7	190.0	(D)	7.4	151.4
	North Carolina	-	9	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.2	95.7
	Ohio	-	10	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.0	87.4
	Pennsylvania	-	47	40	7.2	88.8	6.6	11.9	71.8	154.8	167.5	316.0	3.2	11.2	220.7
	Tennessee	-	21	19	5.8	70.1	5.2	10.6	58.7	187.7	172.1	362.3	2.2	10.8	278.1
	Texas	-	36	19	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6.0	102.9
	Virginia	-	7	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	West Virginia	-	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Wisconsin	-	22	19	3.4	50.9	2.7	5.0	33.0	144.6	117.2	258.7	(D)	4.0	110.7
315	Leather gloves and mittens	-	77	45	3.1	33.6	2.7	4.9	26.1	74.6	112.3	184.8	.7	3.9	72.5
	New York	-	17	7	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	15.6
316	Luggage	-	241	109	11.4	195.7	8.3	15.1	104.1	505.9	430.0	928.9	11.8	16.0	432.8
	California	E1	35	16	1.2	18.5	.9	1.8	10.7	46.5	47.6	93.8	(D)	1.3	27.2
	Colorado	-	11	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Illinois	E2	20	7	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	16.1
	New York	E1	48	30	2.3	40.8	1.7	3.0	23.2	95.9	67.7	164.6	1.6	3.6	82.7
	Rhode Island	-	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Tennessee	-	8	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.8	72.1

See footnotes at end of table.

Table 2. Industry Group Statistics by State: 1987 and 1982—Con.

[Includes industry groups with 450 manufacturing employees or more. Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes.]

1987 SIC code	Industry group and geographic area	1987											1982	
		All establishments ²		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materials ⁴ (million dollars)	Value of shipments ⁴ (million dollars)	New capital expend- itures (million dollars)	All em- ployees ³ (1,000)	Value added by manu- facture (million dollars)
		E ¹	Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
31	Leather and leather products—Con.													
317	Handbags and personal leather goods	E1	530	150	16.7	232.0	13.6	25.5	155.2	530.2	411.9	942.1	13.7	25.3
	Arkansas	E1	7	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
	California	E2	61	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.9	28.6
	Connecticut	-	9	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	11.6
	Florida	E2	28	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	17.6
	Massachusetts	-	35	16	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.5	56.9
	Missouri	-	12	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	23.0
	New Jersey	E1	27	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.9	53.3
	New York	E1	200	54	5.7	80.2	4.6	8.7	54.2	193.1	165.9	357.8	(D)	8.9
	Texas	E1	18	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8	12.9
	Wisconsin	-	6	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
319	Leather goods, n.e.c.	E1	396	97	7.1	95.0	5.8	10.4	63.3	225.8	190.6	411.3	5.6	7.0
	California	E1	54	14	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	27.6
	New York	E3	60	11	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	14.1
	Tennessee	E1	16	8	.5	5.9	.4	.7	3.7	13.3	12.5	25.6	.4	BB
	Texas	E1	56	16	1.1	12.8	.9	1.6	8.4	28.9	28.0	57.2	(D)	1.1
32	Stone, clay, and glass products	E1	16 191	5 134	523.7	12 349.1	404.8	832.6	8 794.8	33 383.1	28 142.8	61 476.6	2 417.3	531.5
	Alabama	E1	294	95	9.0	186.1	7.1	14.7	133.6	525.6	474.6	1 006.0	38.1	8.2
	Arizona	E1	271	89	8.3	183.6	6.6	13.1	140.5	506.2	528.1	1 032.8	52.9	4.7
	Arkansas	E1	203	52	4.3	82.7	3.3	6.5	57.4	225.9	215.8	441.9	11.2	4.2
	California	E1	1 651	555	49.0	1 260.9	37.7	77.9	888.5	3 525.8	3 095.1	6 590.6	219.4	49.0
	Colorado	E1	250	75	6.8	161.9	4.8	9.4	103.4	377.1	303.7	680.9	23.3	8.8
	Connecticut	E1	179	66	4.9	124.2	3.7	7.8	81.9	300.7	258.5	558.2	17.8	4.9
	Delaware	E1	39	18	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	27.4
	Florida	E1	908	313	22.3	451.8	17.2	36.1	320.8	1 186.3	1 331.8	2 518.5	75.8	18.4
	Georgia	E1	535	188	18.8	409.1	14.4	30.2	292.0	1 111.6	1 024.2	2 135.9	105.3	14.4
	Hawaii	E3	54	12	.9	23.6	.7	1.4	17.5	74.2	83.0	155.6	4.3	.9
	Idaho	E3	71	17	.9	17.9	.6	1.2	12.4	42.5	41.2	83.8	1.8	1.0
	Illinois	E1	639	230	20.3	509.8	15.9	32.6	367.1	1 307.0	1 109.3	2 416.3	(D)	26.3
	Indiana	E1	427	131	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	18.5
	Iowa	-	274	51	4.7	111.7	3.7	7.8	80.8	384.8	428.3	800.6	28.3	4.8
	Kansas	-	211	57	5.2	130.9	4.1	8.3	98.2	380.0	280.4	661.4	21.0	5.8
	Kentucky	E1	263	88	8.5	182.3	6.5	13.3	128.5	501.8	355.5	855.7	49.9	6.3
	Louisiana	E1	217	66	5.4	107.2	4.1	8.3	74.6	258.7	253.5	513.6	19.3	7.4
	Maine	E2	75	24	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8
	Maryland	-	183	74	6.1	147.9	4.6	9.5	103.3	427.3	391.7	823.4	23.6	6.9
	Massachusetts	E1	285	98	10.8	302.3	7.0	14.5	173.1	662.7	473.0	1 131.1	66.1	11.7
	Michigan	E1	603	148	15.7	447.7	11.8	25.2	317.9	1 258.2	1 066.2	2 330.6	(D)	14.0
	Minnesota	-	337	73	9.9	257.1	7.2	14.9	173.9	868.3	882.9	1 738.7	54.8	9.8
	Mississippi	E1	164	50	5.8	108.2	4.6	9.5	75.3	292.6	280.3	572.5	14.6	5.7
	Missouri	-	380	115	11.4	275.4	8.8	17.5	197.0	728.6	617.4	1 348.3	44.5	10.3
	Montana	E2	97	7	.8	18.8	.7	1.3	13.4	45.6	41.1	88.3	4.1	1.0
	Nebraska	E1	134	26	2.0	37.9	1.5	3.4	27.0	116.7	94.9	210.7	6.2	2.3
	Nevada	E1	57	23	1.6	42.8	1.2	2.5	30.1	99.5	109.6	207.8	8.3	1.6
	New Hampshire	E2	79	26	2.3	55.2	1.7	3.4	36.6	142.6	111.2	253.9	8.8	2.5
	New Jersey	E1	445	186	22.0	525.0	17.2	35.3	388.8	1 379.6	934.8	2 310.5	103.9	26.5
	New Mexico	E2	127	36	2.2	44.5	1.6	3.3	28.3	120.1	97.5	216.7	7.0	2.2
	New York	E1	733	204	24.7	619.9	18.0	36.9	401.8	1 680.8	1 278.9	2 957.9	104.3	26.5
	North Carolina	-	462	171	20.6	426.5	16.5	34.2	310.6	1 202.9	927.1	2 131.0	89.4	15.9
	North Dakota	E3	64	6	.6	12.9	.4	1.0	8.9	33.2	23.8	57.4	2.0	.7
	Ohio	-	889	318	39.6	996.1	31.2	64.0	722.6	2 604.8	1 830.5	4 449.1	175.8	43.4
	Oklahoma	E1	263	72	9.9	237.3	8.2	16.5	184.2	614.0	477.7	1 086.7	48.0	9.8
	Oregon	E2	205	33	3.2	74.6	2.4	4.9	51.3	179.1	156.8	333.4	9.4	3.1
	Pennsylvania	-	852	300	40.9	979.4	32.1	64.8	724.1	2 642.8	2 123.1	4 769.1	192.1	44.4
	Rhode Island	E1	42	13	1.1	30.1	.9	1.8	21.7	81.5	46.1	125.6	6.7	2.2
	South Carolina	E1	189	75	9.8	219.1	8.0	16.8	167.3	571.9	496.2	1 074.7	46.6	9.2
	South Dakota	E2	67	10	.7	15.1	.5	1.1	10.1	32.7	31.9	65.2	1.9	1.3
	Tennessee	-	335	118	13.7	337.4	11.0	23.5	252.6	948.7	753.9	1 709.6	75.5	13.7
	Texas	E1	1 160	362	37.3	793.9	29.0	60.7	569.3	2 180.2	1 927.5	4 107.2	119.4	39.7
	Utah	E1	100	39	3.3	76.7	2.6	5.4	54.4	204.7	183.8	394.6	10.6	3.5
	Vermont	E2	118	32	2.4	53.6	1.8	3.7	37.6	111.9	93.1	203.9	8.0	1.8
	Virginia	E1	346	147	12.8	254.6	10.0	20.7	180.9	718.4	641.8	1 341.7	52.0	10.1
	Washington	E1	312	83	6.3	153.4	4.9	10.0	108.7	400.9	352.1	752.0	24.6	5.8
	West Virginia	E1	141	52	8.9	201.9	7.3	14.0	156.4	459.1	309.8	769.0	28.6	11.5
	Wisconsin	E1	374	92	7.9	186.8	6.2	12.5	134.2	607.2	497.9	1 105.1	44.4	7.7
	Wyoming	E1	41	8	.7	15.6	.6	1.2	12.1	28.2	46.2	73.4	(D)	1.1
321	Flat glass	-	84	38	14.6	506.8	11.8	25.0	397.6	1 618.4	915.3	2 549.3	151.3	15.3
	California	-	13	5	1.2	38.2	.9	2.0	28.6	165.5	92.2	258.0	(D)	.9
	Illinois	-	4	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE
	Michigan	-	5	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE
	North Carolina	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC
	Ohio	-	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE

See footnotes at end of table.

Table 2. Industry Group Statistics by State: 1987 and 1982—Con.

[Includes industry groups with 450 manufacturing employees or more. Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes.]

1987 SIC code	Industry group and geographic area	1987											1982		
		All establishments ²		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materials ⁴ (million dollars)	Value of shipments ⁴ (million dollars)	New capital expend- itures (million dollars)	All em- ployees ³ (1,000)	Value added by manu- facture (million dollars)	
		E ¹	Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							Wages (million dollars)
32	Stone, clay, and glass products— Con.														
321	Flat glass—Con.														
	Oklahoma	-	2	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)	
	Pennsylvania	-	6	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)	
	Tennessee	-	3	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)	
	Texas	-	7	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)	
	West Virginia	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)	
322	Glass and glassware, pressed or blown	-	522	211	77.4	1 959.2	65.8	129.4	1 576.6	5 065.2	3 257.4	8 338.8	422.3	96.6	4 482.2
	Alabama	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)	
	Arkansas	-	8	4	6	10.7	5	9	8.2	22.0	33.4	55.3	(D)	BB	(D)
	California	E1	92	29	8.5	232.9	7.4	14.9	190.7	624.8	473.5	1 089.3	76.8	10.0	528.2
	Connecticut	-	10	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	Florida	-	13	3	1.3	33.3	1.1	2.3	28.3	92.2	68.4	162.3	5.7	1.8	68.5
	Georgia	-	4	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.8	101.1
	Illinois	-	16	9	3.5	91.1	3.1	6.3	76.8	214.3	164.0	373.6	13.5	5.1	212.6
	Indiana	E2	11	7	4.1	84.9	3.3	6.3	69.3	227.5	139.6	366.8	19.6	6.6	276.7
	Kentucky	E2	5	4	1.0	26.2	.8	1.4	20.3	80.7	31.1	112.3	(D)	1.2	98.9
	Louisiana	-	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Maryland	-	4	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Missouri	-	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	New Jersey	-	42	16	7.3	176.3	6.0	12.1	141.5	444.7	249.2	692.2	31.2	9.2	372.6
	New York	-	37	14	3.3	89.1	2.5	5.3	60.0	232.1	139.5	369.8	(D)	3.5	203.3
	North Carolina	-	16	8	4.8	122.8	4.2	8.5	101.1	367.8	221.0	585.4	(D)	4.5	219.9
	Ohio	-	35	18	8.0	209.4	6.7	12.7	163.0	553.1	267.1	835.9	(D)	10.3	489.1
	Oklahoma	-	10	9	3.1	75.6	2.7	4.9	62.0	184.7	112.3	297.2	15.2	3.3	151.8
	Oregon	-	8	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	Pennsylvania	-	38	21	9.2	224.1	7.9	15.0	183.6	575.2	348.5	920.3	45.0	11.8	524.3
	Rhode Island	-	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	South Carolina	-	5	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	Tennessee	-	6	4	.8	20.7	.6	1.3	14.7	45.7	67.0	120.1	7.1	3.4	148.7
	Texas	E2	26	9	3.6	103.5	3.1	6.4	83.0	264.4	184.8	455.9	21.4	3.4	141.9
	Virginia	E3	9	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Washington	-	10	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	West Virginia	E1	24	15	4.3	95.5	3.6	6.8	76.4	192.2	145.9	340.9	15.1	6.3	230.6
323	Products of purchased glass	-	1 429	431	51.1	1 059.9	39.5	79.9	720.0	2 837.1	2 587.0	5 429.2	204.3	41.3	1 483.7
	Alabama	-	8	3	.9	21.3	.6	1.2	13.2	53.3	34.3	94.4	(D)	CC	(D)
	California	E1	224	67	5.1	103.4	3.8	7.4	63.8	221.0	204.6	424.3	(D)	4.6	159.1
	Connecticut	E2	24	11	.6	10.0	.4	.9	5.6	26.9	25.3	51.7	1.1	CC	(D)
	Florida	E1	77	12	1.5	24.6	1.2	2.5	16.5	55.1	57.8	112.7	2.5	1.4	34.7
	Georgia	-	28	12	.9	14.3	.7	1.3	10.6	31.8	46.1	78.4	(D)	CC	(D)
	Illinois	E2	65	24	1.8	34.9	1.4	2.6	22.4	74.4	67.5	141.9	8.3	1.6	57.3
	Indiana	E1	42	16	2.2	50.6	1.8	3.8	37.1	137.3	122.2	259.1	12.6	1.5	41.5
	Kentucky	-	13	7	.9	18.5	.7	1.5	12.1	75.2	31.6	105.2	3.0	(NA)	(NA)
	Massachusetts	-	31	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	13.8
	Michigan	E1	63	18	3.8	107.9	2.8	6.2	75.2	248.5	204.3	452.1	29.8	2.5	95.4
	Minnesota	-	22	5	1.2	25.5	.9	1.9	17.0	81.3	86.0	166.9	(D)	.7	31.5
	Mississippi	-	7	4	1.0	15.6	.7	1.6	9.6	37.9	49.3	89.0	.5	.5	15.5
	New Jersey	E1	91	33	2.9	57.8	2.3	4.7	40.6	138.3	96.9	235.5	(D)	3.5	112.9
	New York	E1	113	29	3.1	58.4	2.5	4.9	38.1	152.3	128.6	277.1	8.4	4.1	202.3
	North Carolina	-	37	16	3.8	69.3	2.8	6.1	42.3	241.8	129.7	378.4	9.9	1.8	60.9
	Ohio	-	81	28	4.0	92.3	3.1	6.4	68.6	237.8	226.2	463.2	35.1	2.8	123.8
	Pennsylvania	-	80	31	5.0	123.7	3.8	7.5	88.1	390.6	451.4	849.8	29.0	5.3	208.3
	South Carolina	-	14	4	.5	8.8	.4	.8	6.1	20.3	25.4	45.1	.7	AA	(D)
	Tennessee	-	28	10	2.1	37.5	1.8	3.6	28.2	85.1	120.2	201.5	(D)	1.0	30.9
	Texas	-	82	18	1.9	35.9	1.5	3.0	27.1	102.4	96.8	200.7	(D)	1.4	59.2
	Virginia	-	22	9	1.2	17.9	.9	1.7	10.8	54.3	34.4	81.7	1.8	.8	14.4
	Washington	-	27	7	.6	12.3	.5	1.0	8.2	33.2	42.0	75.2	2.8	.5	16.8
	West Virginia	E2	16	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	28.4
	Wisconsin	E1	33	12	1.0	20.6	.8	1.6	13.5	65.6	89.4	155.2	11.6	.4	14.6
324	Cement, hydraulic	-	213	138	19.1	598.6	14.5	30.2	424.4	2 304.1	2 002.0	4 335.4	166.2	24.6	1 815.7
	Alabama	-	7	7	.7	20.6	.6	1.1	15.8	92.0	93.7	189.5	9.6	1.0	59.8
	California	-	21	12	2.3	78.2	1.8	3.8	54.6	354.2	269.1	621.2	(D)	3.3	232.5
	Florida	-	8	6	.5	14.6	.4	.8	9.0	73.3	106.3	178.6	1.8	.6	41.0
	Indiana	-	5	5	.8	24.0	.6	1.1	16.9	93.2	65.3	160.6	5.6	.7	41.1
	Iowa	-	5	4	.5	13.5	.3	.7	9.8	56.8	42.8	102.0	(D)	.7	43.7
	Kansas	-	5	5	.7	21.6	.5	1.0	15.7	45.5	39.6	84.7	(D)	.8	50.3
	Michigan	-	7	5	.9	27.7	.7	1.5	20.6	159.6	111.4	273.3	9.0	1.2	91.4
	Missouri	-	8	6	.9	29.4	.7	1.3	19.8	125.9	114.1	243.5	13.4	.9	58.0
	New York	-	9	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	68.5
	Ohio	-	10	6	.6	19.7	.5	.9	12.4	73.7	39.5	115.5	(D)	CC	(D)
	Oklahoma	-	4	3	.5	13.9	.4	.8	10.5	32.7	32.7	66.8	(D)	.5	52.7
	Pennsylvania	-	20	13	1.9	59.2	1.4	3.2	43.0	202.5	184.1	387.4	23.0	2.2	113.0
	South Carolina	-	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	34.7
	Texas	-	20	14	2.1	60.1	1.4	3.1	40.5	143.4	183.2	328.8	9.7	3.3	344.8
325	Structural clay products	-	600	366	34.6	689.3	27.5	56.4	490.5	1 739.9	1 183.2	2 914.8	105.2	29.9	989.2
	Alabama	-	27	20	1.7	34.0	1.4	3.1	24.9	111.3	58.2	167.8	3.9	1.2	55.4
	Arkansas	E1	9	8	.5	8.8	.4	.9	6.5	28.7	8.0	36.0	.6	.5	17.1
	California	-	59	31	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.9	65.6
	Florida	E1	18	5	1.0	20.2	.8	1.6	13.4	20.9	26.6	48.0	2.0	.6	22.7
	Georgia	-	16	13	2.2	41.8	1.6	3.3	25.4	105.9	83.0	188.9	13.4	1.4	38.8

See footnotes at end of table.

Table 2. Industry Group Statistics by State: 1987 and 1982—Con.

[Includes industry groups with 450 manufacturing employees or more. Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes.]

1987 SIC code	Industry group and geographic area	1987											1982	
		All establishments ²		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materials ⁴ (million dollars)	Value of shipments ⁴ (million dollars)	New capital expend- itures (million dollars)	All em- ployees ³ (1,000)	Value added by manu- facture (million dollars)
		E ¹	Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
32	Stone, clay, and glass products— Con.													
325	Structural clay products—Con.													
	Indiana	-	16	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	10.1
	Kentucky	-	15	11	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9	31.2
	Mississippi	E2	13	12	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9	19.8
	Missouri	-	12	9	1.4	38.1	1.1	2.2	28.6	89.5	92.2	179.5	2.0	86.6
	New Jersey	E3	14	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
	New York	-	9	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	North Carolina	-	25	25	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.7	36.7
	Ohio	E1	79	53	3.9	83.0	3.1	6.5	60.7	198.8	137.9	339.0	4.3	137.3
	Oklahoma	-	9	7	.5	10.9	.4	.9	8.0	25.1	20.6	49.5	.7	CC
	Pennsylvania	-	52	35	4.1	88.4	3.2	6.7	65.3	241.8	140.9	378.2	18.0	3.7
	South Carolina	-	11	9	1.0	19.1	.8	1.7	12.9	45.1	26.5	70.6	2.1	.7
	Tennessee	-	10	6	1.2	24.2	1.0	2.0	18.1	60.7	43.7	103.9	(D)	CC
	Texas	-	53	35	3.7	63.4	2.8	5.6	42.0	185.5	93.6	277.6	(D)	3.4
	Virginia	-	10	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	8.4
326	Pottery and related products	-	1 013	253	38.1	762.2	30.4	60.2	548.6	1 686.2	753.1	2 415.9	82.6	37.4
	California	E1	198	52	4.5	67.0	3.7	7.1	48.2	131.8	66.7	197.4	(D)	5.2
	Colorado	-	18	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Connecticut	-	10	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	Georgia	-	15	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	19.5
	Illinois	-	26	12	1.7	34.4	1.4	2.7	27.9	71.6	29.8	99.9	(D)	1.9
	Indiana	-	19	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
	Kentucky	-	15	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	Michigan	-	23	4	.7	20.0	.5	.9	13.2	20.9	11.4	33.6	(D)	EE
	New Jersey	-	41	23	3.8	81.0	3.0	5.9	59.9	198.5	56.6	250.9	15.6	3.9
	New York	-	52	14	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.5	92.4
	North Carolina	-	28	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
	Ohio	-	63	33	4.1	85.3	3.4	6.9	65.5	186.9	92.8	283.5	10.3	5.4
	Oklahoma	-	8	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Pennsylvania	-	56	21	4.2	90.1	3.3	7.2	66.6	202.2	83.8	284.6	6.6	FF
	South Carolina	E7	6	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Tennessee	-	23	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	18.7
	Texas	-	54	12	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.8	58.4
	West Virginia	-	9	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	29.7
	Wisconsin	-	17	6	.9	21.8	.7	1.6	18.7	47.8	22.2	69.7	.8	CC
327	Concrete, gypsum, and plaster products	E2	9 835	2 945	203.2	4 632.2	151.8	322.8	3 194.0	11 795.2	12 693.0	24 426.5	866.4	167.2
	Alabama	E3	197	50	3.5	61.1	2.7	5.6	41.0	149.9	162.4	310.8	9.9	2.9
	Arizona	E1	172	71	6.5	147.8	5.2	10.5	115.1	400.3	439.9	842.7	46.4	3.4
	Arkansas	E2	143	29	2.2	40.7	1.5	3.2	26.9	109.0	119.5	228.4	6.8	1.7
	California	E1	792	294	19.8	555.2	14.4	30.5	375.5	1 498.3	1 605.8	3 086.3	85.0	14.1
	Colorado	E2	152	52	3.6	85.0	2.7	5.5	58.3	171.8	185.7	357.9	7.8	4.5
	Connecticut	E1	102	38	2.3	66.6	1.6	3.8	43.4	166.0	154.8	319.5	13.6	1.5
	Delaware	E1	25	13	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	20.7
	Florida	E1	629	264	15.9	316.4	12.0	25.7	222.9	828.6	995.3	1 819.5	58.4	12.1
	Georgia	E2	305	111	7.2	144.5	5.3	11.7	95.8	362.1	479.5	831.6	25.8	6.0
	Hawaii	E4	34	11	.6	18.4	.5	1.1	13.8	57.7	67.9	124.4	2.7	.7
	Idaho	E3	53	15	.7	13.9	.5	.9	9.6	30.9	33.4	64.6	1.4	.9
	Illinois	E3	393	115	7.0	178.3	5.4	11.4	132.3	452.6	479.4	930.2	30.0	5.2
	Indiana	E1	263	57	4.8	117.2	3.6	7.6	78.9	305.1	332.3	633.1	25.0	4.0
	Iowa	E1	222	36	2.9	70.5	2.3	4.8	49.8	187.6	196.0	382.9	19.5	3.1
	Kansas	E1	154	32	2.2	43.8	1.7	3.4	31.2	95.8	114.0	211.6	9.5	2.1
	Kentucky	E2	185	49	3.5	70.1	2.5	5.3	46.2	164.0	188.1	351.8	13.9	2.1
	Louisiana	E2	163	53	3.3	59.1	2.4	4.9	38.9	139.0	158.5	297.6	15.0	4.0
	Maine	E2	44	18	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	18.0
	Maryland	-	120	55	4.0	94.1	2.8	6.0	62.0	273.1	286.2	561.4	(D)	2.9
	Massachusetts	E2	145	55	3.7	107.1	2.7	5.8	73.3	243.7	237.5	480.0	20.2	2.8
	Michigan	E1	390	83	5.6	150.8	4.1	8.9	103.8	415.0	415.0	828.5	29.3	3.9
	Minnesota	E2	241	46	3.3	82.8	2.5	5.1	56.1	192.2	188.1	378.4	(D)	3.2
	Mississippi	E2	115	24	2.2	39.3	1.7	3.6	26.8	91.9	105.8	197.0	5.9	2.0
	Missouri	E1	269	73	5.5	121.6	4.2	8.4	85.8	272.5	272.9	544.5	21.8	4.0
	Montana	E4	84	4	.6	12.5	.5	1.0	9.6	25.1	27.7	52.9	(D)	.7
	Nebraska	E1	108	22	1.4	26.1	1.0	2.3	17.9	73.0	72.6	143.9	(D)	1.4
	Nevada	E2	45	22	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2
	New Hampshire	E3	47	17	1.3	33.1	1.0	2.0	22.8	92.2	84.2	175.9	6.4	.6
	New Jersey	E2	176	78	4.5	127.3	3.3	7.5	87.0	342.3	331.0	669.4	22.3	3.3
	New Mexico	E1	83	28	1.7	33.3	1.2	2.4	21.2	90.7	71.1	162.1	3.7	1.7
	New York	E2	353	97	6.6	176.9	4.7	10.1	115.8	490.9	495.2	986.5	45.3	5.0
	North Carolina	E1	283	92	5.8	107.6	4.4	9.3	74.1	262.8	323.7	587.7	26.0	4.2
	North Dakota	E3	58	5	.5	11.8	.4	.9	7.9	30.2	22.3	52.9	(D)	CC
	Ohio	E1	448	115	8.4	204.2	6.2	13.3	136.8	538.3	548.9	1 085.5	40.0	6.4
	Oklahoma	E2	199	38	3.5	68.4	2.7	6.0	49.9	184.8	182.9	365.9	8.7	3.5
	Oregon	E3	119	22	1.8	41.0	1.3	2.7	26.6	88.4	94.4	182.2	4.6	1.8
	Pennsylvania	E1	440	116	8.3	183.2	6.1	13.0	126.8	448.8	487.9	937.1	33.8	7.1
	South Carolina	E3	120	41	3.1	57.1	2.5	5.5	41.0	148.9	157.0	307.2	22.2	2.4
	South Dakota	E2	54	7	.6	11.4	.4	.8	7.4	24.6	26.5	51.9	1.2	.6
	Tennessee	E1	211	71	3.9	72.2	2.8	6.1	47.0	179.3	208.4	387.8	12.8	2.9
	Texas	E2	720	229	17.5	350.9	13.5	29.0	244.3	838.8	977.1	1 808.1	54.7	18.5
	Utah	E1	72	28	2.5	56.3	1.9	4.1	39.9	116.3	131.8	249.5	7.1	2.2
	Vermont	E4	22	9	.7	17.7	.5	1.2	13.0	40.9	39.9	80.5	4.6	.3
	Virginia	E1	264	105	7.2	141.3	5.6	11.7	100.6	415.4	391.2	798.4	28.6	5.1
	Washington	E2	183	55	3.6	91.1	2.7	5.6	62.1	223.9	215.0	441.3	16.2	3.1

See footnotes at end of table.

Table 2. Industry Group Statistics by State: 1987 and 1982—Con.

[Includes industry groups with 450 manufacturing employees or more. Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes.]

1987 SIC code	Industry group and geographic area	1987											1982	
		All establishments ²		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materials ⁴ (million dollars)	Value of shipments ⁴ (million dollars)	New capital expend- itures (million dollars)	All em- ployees ³ (1,000)	Value added by manu- facture (million dollars)
		Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
32	Stone, clay, and glass products— Con.													
327	Concrete, gypsum, and plaster products—Con.													
	West Virginia	E3	76	18	1.1	20.7	.8	1.5	13.3	52.0	57.0	108.7	3.6	1.1
	Wisconsin	E2	267	60	3.7	89.3	2.8	5.8	62.4	212.3	228.6	440.2	17.0	3.6
	Wyoming	E1	37	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
328	Cut stone and stone products	E1	746	167	12.5	243.0	10.0	19.8	173.7	450.5	385.8	840.8	30.6	10.5
	California	E2	56	13	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4
	Georgia	E2	113	23	1.8	29.8	1.4	2.8	21.5	56.7	40.8	97.1	(D)	1.6
	Indiana	-	25	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6
	Minnesota	-	18	11	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0
	New York	E2	51	13	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	North Carolina	-	28	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5
	Pennsylvania	E5	27	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
	Texas	E1	65	13	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	Vermont	-	62	17	1.3	26.8	1.0	2.0	19.8	47.9	45.5	92.7	(D)	1.3
329	Miscellaneous nonmetallic mineral products	-	1 749	585	73.0	1 897.8	53.6	108.9	1 269.4	5 886.4	4 366.1	10 226.0	388.5	(NA)
	Alabama	-	30	10	.9	21.3	.7	1.5	15.6	64.1	82.0	145.6	6.9	(NA)
	California	E1	196	52	5.0	127.1	3.6	7.7	86.9	394.7	302.9	697.7	(D)	(NA)
	Connecticut	-	22	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
	Florida	E2	83	17	1.6	36.5	1.3	2.5	26.3	102.2	68.2	174.0	(D)	(NA)
	Georgia	-	50	20	4.0	108.3	3.0	6.2	78.6	380.7	227.0	618.1	35.1	(NA)
	Illinois	E1	92	44	3.9	96.1	2.7	5.5	53.4	271.4	183.3	454.4	11.8	(NA)
	Indiana	-	45	25	2.6	67.4	2.0	4.1	47.1	211.9	160.6	371.3	(D)	(NA)
	Iowa	-	10	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
	Kansas	-	14	6	1.6	53.5	1.4	2.8	43.5	188.6	99.1	288.0	(D)	(NA)
	Kentucky	-	23	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
	Louisiana	-	23	5	.5	10.7	.4	.7	7.3	34.1	38.5	74.5	1.1	(NA)
	Massachusetts	-	57	26	5.1	149.1	2.9	5.7	70.5	319.8	168.6	485.0	(D)	(NA)
	Michigan	E1	83	32	7.0	70.2	2.1	4.2	48.9	209.8	171.8	381.3	(D)	(NA)
	Minnesota	-	26	7	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
	Mississippi	-	15	7	1.0	23.5	.8	1.6	16.2	88.8	64.0	152.2	(D)	(NA)
	Missouri	-	38	15	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
	New Jersey	E1	69	30	2.6	65.9	2.0	3.9	47.5	214.4	162.3	378.5	8.9	(NA)
	New York	-	101	30	5.5	147.2	3.7	7.2	90.0	354.3	269.2	628.8	19.0	(NA)
	North Carolina	E1	42	16	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
	Ohio	-	147	58	8.7	246.1	6.6	13.9	168.9	684.9	460.7	1 135.6	25.6	(NA)
	Pennsylvania	-	133	54	6.0	154.5	4.5	9.2	109.6	427.9	318.6	749.4	26.0	(NA)
	Tennessee	E1	34	9	1.2	28.7	1.0	2.1	22.2	88.1	71.3	160.3	(D)	(NA)
	Texas	E1	133	29	3.7	81.9	2.9	5.7	61.6	327.8	230.4	557.1	13.6	(NA)
	Virginia	-	14	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
	West Virginia	-	11	6	.9	30.2	.8	1.6	23.4	68.4	32.9	100.9	(D)	(NA)
	Wisconsin	-	28	8	1.7	39.9	1.3	2.4	28.0	243.8	124.8	369.2	(D)	(NA)
33	Primary metal industries	-	6 661	3 687	701.1	19 777.3	541.5	1 114.0	14 162.8	46 121.1	74 692.3	120 248.2	3 850.9	854.1
	Alabama	-	152	101	22.7	616.8	18.2	37.9	456.5	1 598.3	3 003.8	4 643.7	116.3	26.6
	Arizona	-	57	32	7.0	185.5	5.4	10.1	135.7	617.4	1 466.0	2 069.8	35.4	8.0
	Arkansas	-	54	38	6.0	125.5	4.7	9.4	87.9	387.2	791.6	1 181.1	26.6	6.2
	California	E1	705	338	35.0	830.6	27.1	55.6	562.6	1 935.1	3 043.8	4 976.4	317.3	42.2
	Colorado	-	54	15	3.1	78.9	2.4	5.2	59.3	205.3	282.6	489.0	9.7	5.4
	Connecticut	E1	189	104	12.9	349.7	9.2	19.3	227.1	741.8	1 083.3	1 786.4	45.4	17.8
	Delaware	E1	9	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.1
	Florida	E1	123	50	5.4	108.7	4.2	8.6	73.7	333.5	517.9	844.6	15.5	4.3
	Georgia	-	78	46	12.0	312.9	9.3	18.9	222.7	968.3	1 374.6	2 328.2	54.0	12.2
	Illinois	-	455	272	48.3	1 414.7	36.9	77.0	991.5	3 197.1	5 263.2	8 429.4	243.0	59.4
	Indiana	-	298	189	66.3	2 121.2	51.4	106.9	1 553.7	5 762.5	7 992.8	13 557.7	691.6	86.0
	Iowa	-	67	36	8.0	259.2	6.3	13.0	189.9	352.3	1 040.7	1 361.2	(D)	8.2
	Kansas	-	55	24	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.2
	Kentucky	-	68	51	15.7	466.3	12.3	25.2	346.4	980.5	2 292.5	3 303.3	57.9	15.1
	Louisiana	-	30	14	2.2	53.3	1.7	3.6	36.4	143.6	240.5	370.5	11.6	5.5
	Maine	E1	13	4	.8	16.9	.6	1.2	10.5	21.9	53.9	77.3	(D)	BB
	Maryland	-	56	26	12.4	372.2	10.1	20.1	284.3	1 061.1	985.6	2 059.4	51.9	19.9
	Massachusetts	E1	219	120	17.2	416.4	11.9	23.7	230.9	834.7	1 162.6	1 983.8	63.9	13.7
	Michigan	-	502	289	50.1	1 551.3	38.9	80.6	1 129.7	2 972.8	4 091.5	7 064.0	265.5	50.1
	Minnesota	E2	104	61	6.7	175.8	5.3	10.8	122.2	355.4	304.4	656.7	(D)	6.2
	Mississippi	-	42	28	4.0	87.1	3.1	6.7	60.7	285.0	456.5	746.8	18.3	3.6
	Missouri	-	141	76	12.1	313.7	9.3	18.8	218.9	669.2	1 191.1	1 881.3	42.4	13.6
	Montana	-	12	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE
	Nebraska	-	25	10	1.9	60.9	1.6	3.2	50.8	190.1	385.3	576.7	(D)	2.6
	Nevada	-	9	6	1.1	33.6	.8	1.5	21.4	70.6	91.4	158.7	1.7	1.4
	New Hampshire	E2	43	24	3.7	89.9	2.7	5.7	60.5	188.0	151.5	336.1	18.2	3.7
	New Jersey	-	256	143	18.0	461.3	13.3	28.5	305.9	1 081.8	1 792.8	2 851.9	72.6	20.9
	New Mexico	-	16	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE
	New York	E1	351	167	25.8	707.6	19.0	38.4	469.9	1 751.9	3 634.3	5 385.8	145.7	37.9
	North Carolina	-	103	58	9.5	218.5	7.3	15.2	148.8	631.0	851.7	1 466.7	(D)	7.9
	Ohio	-	604	357	82.7	2 562.4	65.9	137.5	1 949.8	5 976.2	8 628.8	14 622.0	372.7	98.6
	Oklahoma	E3	84	44	4.3	110.1	3.4	7.4	78.7	215.3	401.2	626.5	15.1	5.1
	Oregon	-	80	36	9.9	282.0	7.1	13.1	180.0	612.3	605.1	1 197.9	65.6	8.6
	Pennsylvania	-	502	318	76.1	2 236.8	59.2	119.4	1 636.8	4 305.8	7 679.8	11 908.7	226.3	118.6
	Rhode Island	E1	83	35	7.1	156.1	5.2	11.7	104.8	335.9	594.0	910.4	28.5	6.8

See footnotes at end of table.

Table 2. Industry Group Statistics by State: 1987 and 1982—Con.

[Includes industry groups with 450 manufacturing employees or more. Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes.]

1987 SIC code	Industry group and geographic area	1987											1982		
		All establishments ²		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materials ⁴ (million dollars)	Value of shipments ⁴ (million dollars)	New capital expend- itures (million dollars)	All em- ployees ³ (1,000)	Value added by manu- facture (million dollars)	
		Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)							
33	Primary metal Industries—Con.														
	South Carolina	-	61	38	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6.6	257.6
	Tennessee	-	123	77	13.8	359.2	11.2	23.3	268.9	861.5	1 836.7	2 659.1	144.0	14.4	432.6
	Texas	-	339	158	27.2	680.5	20.7	42.1	463.5	1 770.4	4 096.9	5 850.4	101.4	39.2	1 848.8
	Utah	-	38	18	3.4	87.5	2.3	4.9	65.0	254.8	447.3	631.4	55.3	7.9	57.3
	Vermont	-	10	7	.9	17.5	.6	1.1	10.7	31.5	45.7	77.8	(D)	.9	37.2
	Virginia	-	66	38	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	8.1	281.8
	Washington	-	103	51	11.3	343.8	9.0	17.4	250.7	896.0	1 520.3	2 390.8	92.0	13.8	672.6
	West Virginia	-	33	20	15.0	475.9	11.2	23.2	343.5	1 144.7	1 582.7	2 751.6	87.9	17.2	580.9
	Wisconsin	-	218	145	20.9	515.0	16.6	34.3	375.6	1 010.3	1 037.6	2 031.6	77.3	21.8	718.2
331	Blast furnace and basic steel products	-	1 127	713	252.8	8 165.7	195.7	407.4	6 063.0	20 486.2	31 411.7	51 815.3	1 667.7	365.7	14 721.5
	Alabama	-	24	15	5.4	165.8	4.4	9.2	126.0	492.6	855.9	1 338.6	40.8	8.3	297.2
	Arkansas	-	13	9	1.3	31.7	1.0	2.2	21.7	80.6	151.2	234.5	14.3	.6	25.4
	California	-	90	44	6.2	182.3	4.7	10.2	134.5	543.4	1 192.6	1 730.0	(D)	11.8	641.0
	Colorado	-	10	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	Connecticut	-	30	19	2.9	92.5	2.0	4.4	62.6	195.6	376.7	554.1	10.7	3.3	133.2
	Florida	-	32	15	1.8	44.7	1.4	3.1	32.0	187.8	227.7	413.0	4.6	1.4	109.7
	Georgia	-	17	12	2.3	64.1	1.7	3.6	45.7	138.1	215.6	348.1	(D)	2.5	89.7
	Illinois	-	105	71	20.8	681.2	16.0	33.4	490.5	1 707.1	2 812.2	4 522.9	138.4	26.2	933.4
	Indiana	-	48	33	36.1	1 262.3	27.6	57.1	922.7	3 679.7	4 462.1	8 040.1	432.0	56.4	2 242.4
	Iowa	-	9	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9	48.2
	Kentucky	-	18	13	6.6	217.3	5.2	10.7	168.1	530.4	647.6	1 179.3	(D)	6.4	201.3
	Louisiana	-	8	5	1.0	27.6	.7	1.5	17.9	76.5	153.7	221.9	(D)	1.3	58.3
	Maryland	-	15	10	10.6	324.8	8.7	17.2	252.5	880.7	826.2	1 725.2	(D)	15.6	637.9
	Massachusetts	E1	31	15	1.1	28.3	.7	1.5	16.8	68.0	98.2	166.1	(D)	1.7	68.6
	Michigan	-	70	43	16.9	629.5	12.9	27.8	469.8	1 315.0	2 338.6	3 672.3	93.1	19.0	811.5
	Minnesota	-	14	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	69.7
	Mississippi	-	10	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9	31.9
	Missouri	-	21	15	3.8	115.9	2.8	5.9	79.9	230.2	447.5	680.1	5.4	4.9	228.3
	Nebraska	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	New Jersey	-	50	24	3.4	100.7	2.5	5.1	68.9	235.2	508.4	749.1	16.4	3.5	163.6
	New York	-	42	22	5.8	175.3	4.2	8.6	123.3	603.2	740.2	1 374.4	28.9	11.5	362.2
	North Carolina	E2	13	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	22.7
	Ohio	-	117	83	40.4	1 346.6	32.1	67.9	1 048.0	3 629.8	5 549.8	9 239.1	189.7	53.1	2 414.5
	Oklahoma	E2	17	12	1.4	41.7	1.2	2.6	30.7	92.5	171.8	270.5	6.1	1.2	68.3
	Oregon	-	11	7	1.3	41.3	.9	1.9	27.3	114.7	175.0	280.9	(D)	1.2	75.3
	Pennsylvania	-	117	94	47.8	1 541.1	37.3	74.0	1 148.8	2 949.8	5 525.6	8 447.3	(D)	85.3	3 055.0
	Rhode Island	E1	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
	South Carolina	-	19	13	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.1	82.2
	Tennessee	-	24	14	1.7	39.2	1.3	2.7	26.4	131.5	279.4	424.4	(D)	2.1	80.8
	Texas	-	51	36	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	15.8	942.5
	Utah	-	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	Virginia	-	11	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	40.5
	Washington	-	15	8	1.5	41.4	1.2	2.4	30.9	77.1	125.3	199.0	3.6	1.8	99.4
	West Virginia	-	10	8	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	11.2	386.3
	Wisconsin	-	22	14	1.8	52.2	1.4	2.9	35.3	97.2	217.0	314.4	9.0	2.3	92.3
332	Iron and steel foundries	-	1 231	783	129.8	3 426.1	104.3	212.6	2 551.5	6 219.7	4 483.0	10 627.7	434.9	157.4	5 361.5
	Alabama	-	59	43	8.9	211.8	7.2	15.0	155.1	458.0	440.8	898.6	33.1	9.0	291.9
	Arizona	-	6	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	California	-	87	49	6.0	128.2	4.8	9.6	81.5	253.6	170.3	421.4	(D)	8.2	283.0
	Connecticut	E1	13	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.9	63.8
	Florida	E1	16	7	1.1	17.4	.9	1.5	11.5	35.9	26.6	62.4	(D)	.9	27.8
	Georgia	E1	13	9	1.3	26.1	1.0	2.1	18.8	56.7	38.2	94.5	(D)	2.0	49.5
	Illinois	-	61	38	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	10.8	375.1
	Indiana	-	66	42	9.0	251.6	7.3	15.5	192.1	429.7	289.3	705.0	(D)	9.2	291.0
	Iowa	-	23	16	3.0	90.0	2.5	4.9	69.6	121.6	134.8	256.2	(D)	2.0	65.9
	Kansas	-	16	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.9	57.6
	Massachusetts	E2	32	15	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.6	37.8
	Michigan	-	100	64	15.6	500.6	12.3	24.8	376.7	768.8	549.8	1 304.2	73.5	14.0	651.2
	Minnesota	E1	28	18	1.3	29.4	1.0	2.0	22.1	57.5	41.2	96.6	(D)	1.8	53.1
	Mississippi	E2	9	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	14.9
	Missouri	E1	29	16	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.7	88.7
	New Hampshire	E2	8	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.8	52.7
	New Jersey	-	22	14	3.4	88.1	2.7	5.8	65.8	225.7	189.0	412.5	8.6	3.4	138.9
	New York	E2	38	17	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.0	105.1
	North Carolina	-	17	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	25.1
	Ohio	-	119	85	17.6	570.6	14.7	30.8	458.1	997.4	702.6	1 690.6	95.6	21.9	867.3
	Oklahoma	E5	25	16	1.3	29.0	1.0	2.1	21.6	39.1	48.0	87.0	2.6	2.0	55.6
	Oregon	-	18	11	3.4	88.9	2.5	4.1	54.4	191.1	73.2	260.2	9.7	3.4	134.7
	Pennsylvania	E1	122	83	9.2	208.9	7.4	14.9	153.6	368.8	300.5	669.6	23.4	13.7	426.4
	Tennessee	-	26	20	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.2	122.1
	Texas	E1	69	40	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	8.7	256.3
	Utah	-	12	6	.7	16.0	.6	1.0	12.2	40.3	32.5	72.2	1.0	1.1	23.5
	Virginia	-	20	13	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.0	123.5
	Washington	-	25	16	1.5	37.4	1.0	2.1	21.6	62.5	40.0	101.8	1.2	1.7	84.1
	West Virginia	E2	11	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	41.0
	Wisconsin	-	75	64	10.6	258.4	8.6	17.6	194.2	499.6	343.6	841.6	33.9	12.8	396.3
333	Primary nonferrous metals	-	170	88	31.7	995.5	24.0	48.2	697.0	2 998.1	7 848.1	10 869.0	361.5	43.9	2 310.9
	Alabama	-	4	3	.5	13.9	.3	.7	10.2	22.5	122.9	147.9	(D)	CC	(D)
	Arizona	-	5	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.7	157.5
	Illinois	E1	6	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	27.1
	Indiana	-	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Kentucky	-	4	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)

See footnotes at end of table.

Table 2. Industry Group Statistics by State: 1987 and 1982—Con.

[Includes industry groups with 450 manufacturing employees or more. Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes.]

1987 SIC code	Industry group and geographic area	1987											1982	
		All establishments ²		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materials ⁴ (million dollars)	Value of shipments ⁴ (million dollars)	New capital expend- itures (million dollars)	All em- ployees ³ (1,000)	Value added by manu- facture (million dollars)
		E ¹	Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							Wages (million dollars)
33	Primary metal industries—Con.													
333	Primary nonferrous metals—Con.													
	Maryland	-	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Missouri	-	6	5	2.0	60.2	1.5	3.0	41.5	116.9	358.7	496.2	(D)	2.4
	Montana	-	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	New Jersey	E1	9	3	.5	13.5	.3	.5	6.1	18.6	75.4	98.9	(D)	1.7
	New Mexico	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	New York	-	18	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.6
	North Carolina	-	4	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	Ohio	-	8	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.6
	Oregon	-	5	4	1.8	52.8	1.5	2.9	38.4	105.0	194.0	296.4	(D)	EE
	Pennsylvania	-	10	7	1.1	36.9	.8	1.6	21.9	69.9	133.4	206.1	.5	.7
	South Carolina	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	Tennessee	-	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.7
	Texas	-	10	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5.5
	Utah	-	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Washington	-	11	10	5.0	169.3	4.1	8.6	128.2	566.4	844.8	1 405.7	74.5	6.4
	West Virginia	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
334	Secondary nonferrous metals	E1	398	162	12.5	312.0	9.1	19.3	186.1	947.3	3 450.7	4 431.4	62.6	19.2
	Alabama	-	11	8	1.0	26.4	.8	1.7	18.4	86.3	412.3	543.6	3.5	1.1
	California	E2	43	18	1.5	34.8	1.1	2.1	21.9	127.3	405.9	538.6	(D)	2.4
	Illinois	-	26	16	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.0
	Indiana	E1	19	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3
	Michigan	-	19	7	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	New Jersey	E1	17	9	.5	16.5	.3	.7	7.3	33.5	143.1	176.4	(D)	1.0
	New York	-	25	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2
	Ohio	E1	36	15	1.3	32.4	1.0	2.2	20.8	101.1	304.8	403.7	(D)	1.4
	Pennsylvania	E1	32	12	1.0	23.9	.7	1.4	14.2	71.2	227.7	291.4	4.0	1.4
335	Nonferrous rolling and drawing	-	1 069	758	163.0	4 298.2	121.8	252.8	2 917.5	10 331.6	23 359.7	33 282.2	989.3	166.7
	Alabama	-	17	14	5.6	173.0	4.5	9.3	129.1	490.6	1 118.1	1 614.0	32.8	5.5
	Arizona	-	15	12	4.5	118.8	3.4	6.1	86.4	414.0	492.9	898.5	27.9	3.7
	Arkansas	-	15	13	2.9	59.7	2.3	4.5	41.7	223.0	511.1	732.0	8.6	2.8
	California	E1	115	64	9.2	233.0	7.0	14.6	157.7	508.0	923.4	1 428.9	23.4	8.6
	Colorado	-	6	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Connecticut	E1	67	48	6.8	178.5	4.7	9.6	110.6	379.1	520.6	885.7	24.9	10.2
	Delaware	E2	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
	Florida	E2	22	12	1.4	27.4	1.1	2.4	18.0	80.0	136.8	216.7	2.4	1.1
	Georgia	-	26	19	7.9	210.5	6.1	12.3	149.2	747.4	1 077.2	1 816.5	42.6	6.6
	Illinois	-	60	40	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	11.0
	Indiana	-	55	49	12.9	364.3	9.8	20.2	254.1	1 050.0	2 358.2	3 334.2	168.0	13.8
	Iowa	-	5	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF
	Kansas	-	7	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC
	Kentucky	-	21	20	5.3	147.3	4.1	8.7	105.6	268.4	1 183.4	1 471.2	30.6	4.1
	Louisiana	-	4	3	.6	14.2	.5	1.2	10.3	32.5	57.6	86.4	(D)	CC
	Maine	-	3	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA
	Massachusetts	-	68	53	7.8	183.3	5.7	12.2	116.8	412.9	743.3	1 161.9	29.8	8.0
	Michigan	E2	50	35	5.0	116.7	3.8	7.9	79.4	243.1	470.3	709.8	(D)	5.2
	Mississippi	-	10	10	2.3	48.2	1.7	3.7	32.0	165.0	342.4	514.1	7.2	1.8
	Missouri	-	13	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0
	Nebraska	-	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE
	Nevada	-	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC
	New Hampshire	E2	12	7	1.4	36.1	1.0	2.1	23.2	89.0	112.6	198.7	13.7	1.2
	New Jersey	-	62	47	6.9	165.5	5.1	11.4	109.5	397.4	742.3	1 112.5	23.1	8.0
	New York	E1	81	51	10.4	271.5	7.5	15.6	180.5	542.4	2 129.7	2 645.9	53.0	12.1
	North Carolina	-	29	26	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.8
	Ohio	E1	61	42	7.6	221.4	5.6	11.6	142.1	343.9	1 286.0	1 609.5	27.5	7.4
	Oklahoma	E6	7	3	.5	12.1	.4	.8	8.8	31.7	58.9	89.0	.7	BB
	Oregon	-	9	4	2.0	63.0	1.2	2.3	37.0	120.9	105.6	226.3	(D)	EE
	Pennsylvania	-	57	44	9.7	258.2	7.2	15.9	176.6	555.5	1 211.6	1 727.2	43.6	9.2
	Rhode Island	-	23	16	4.4	90.8	3.2	6.6	59.6	194.0	359.6	534.7	14.0	5.4
	South Carolina	-	12	12	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.7
	Tennessee	-	12	8	4.2	133.9	3.3	6.7	104.8	291.2	1 016.2	1 261.4	(D)	4.8
	Texas	-	52	29	4.6	100.7	3.6	7.6	66.6	228.3	841.9	1 070.3	13.2	4.0
	Utah	-	5	4	.8	19.6	.5	1.1	11.7	25.7	72.5	96.7	(D)	CC
	Vermont	-	6	4	.7	14.5	.5	.9	8.8	25.5	42.7	69.2	(D)	CC
	Virginia	-	15	11	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.2
	Washington	E1	8	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.1
	West Virginia	-	3	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.5
	Wisconsin	-	10	8	1.5	38.6	1.0	2.1	25.2	81.7	109.4	189.3	(D)	1.3
336	Nonferrous foundries (castings)	E1	1 689	790	79.5	1 805.1	64.3	128.9	1 302.6	3 394.6	2 953.8	6 315.2	195.1	75.4
	Alabama	E2	27	15	1.0	15.3	.7	1.3	10.4	24.8	25.6	50.0	3.1	(NA)
	Arkansas	-	12	10	1.2	22.3	1.0	2.1	17.8	65.8	56.5	122.7	2.5	(NA)
	California	E1	239	110	9.1	184.3	7.4	14.6	126.0	342.2	228.0	568.1	15.0	(NA)
	Connecticut	E2	29	14	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
	Florida	E3	31	9	.6	11.7	.5	1.1	7.8	22.0	13.7	35.5	4.2	(NA)
	Illinois	E1	144	75	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
	Indiana	-	58	30	4.9	151.8	4.1	8.6	121.3	220.6	306.0	520.8	(D)	(NA)
	Iowa	E2	23	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
	Kentucky	-	9	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
	Massachusetts	E1	43	14	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)

See footnotes at end of table.

Table 2. Industry Group Statistics by State: 1987 and 1982—Con.

[Includes industry groups with 450 manufacturing employees or more. Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes.]

1987 SIC code	Industry group and geographic area	1987											1982		
		All establishments ²		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materials ⁴ (million dollars)	Value of shipments ⁴ (million dollars)	New capital expend- itures (million dollars)	All em- ployees ³ (1,000)	Value added by manu- facture (million dollars)	
		E ¹	Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							Wages (million dollars)
33	Primary metal industries—Con.														
336	Nonferrous foundries (castings)—Con.														
	Michigan.....	-	127	74	8.1	187.9	6.5	13.1	133.7	375.3	399.0	773.5	(D)	(NA)	(NA)
	Minnesota.....	E1	31	20	3.0	77.7	2.4	4.6	53.0	149.3	75.3	223.9	(D)	(NA)	(NA)
	Missouri.....	E2	47	21	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	New Hampshire.....	E2	15	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	New Jersey.....	-	48	24	1.6	33.4	1.3	2.6	23.4	56.2	39.3	95.5	2.3	(NA)	(NA)
	New York.....	E1	93	44	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	North Carolina.....	E3	21	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Ohio.....	-	164	88	10.5	253.1	8.3	16.8	182.2	520.9	407.7	925.9	24.3	(NA)	(NA)
	Oregon.....	-	25	8	1.3	33.2	1.0	1.6	20.9	72.9	45.3	114.4	(D)	(NA)	(NA)
	Pennsylvania.....	E1	106	56	4.6	100.5	3.7	7.5	74.3	193.1	145.5	337.3	7.9	(NA)	(NA)
	South Carolina.....	-	14	7	.6	10.7	.5	1.0	8.2	23.5	21.2	44.3	1.2	(NA)	(NA)
	Tennessee.....	-	25	16	2.0	41.5	1.7	3.8	32.1	91.7	85.3	174.9	(D)	(NA)	(NA)
	Texas.....	E3	75	27	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Washington.....	E1	30	6	.6	13.0	.5	1.0	9.9	24.9	18.8	43.5	(D)	(NA)	(NA)
	Wisconsin.....	-	70	40	6.1	146.2	5.0	10.5	108.4	283.0	304.1	575.5	27.3	(NA)	(NA)
339	Miscellaneous primary metal products.....	E1	977	393	31.8	774.8	22.3	44.8	445.1	1 743.6	1 185.4	2 907.4	139.8	25.9	997.9
	California.....	E2	116	49	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.5	99.6
	Connecticut.....	E4	42	13	1.0	26.8	.8	1.6	15.8	61.8	30.1	91.8	3.4	1.2	40.4
	Illinois.....	E2	53	27	2.2	49.0	1.5	3.3	32.0	92.3	69.9	163.7	(D)	2.3	77.4
	Indiana.....	E1	51	24	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Massachusetts.....	-	32	16	5.5	143.4	3.2	5.6	54.9	238.2	154.2	374.9	(D)	.9	43.4
	Michigan.....	E2	134	64	3.7	90.7	2.8	5.8	57.6	205.2	113.3	321.5	(D)	3.3	128.6
	Minnesota.....	E5	16	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	14.6
	New Jersey.....	E1	48	22	1.6	43.5	1.1	2.2	24.9	115.3	95.2	206.9	3.8	1.7	75.0
	New York.....	E1	54	20	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.8	96.7
	Ohio.....	E1	99	41	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.4	81.8
	Pennsylvania.....	-	58	22	2.7	67.2	2.1	4.1	47.5	97.5	135.5	230.1	11.2	2.8	92.4
	Tennessee.....	E3	18	8	.7	12.4	.5	1.1	8.0	29.6	30.5	60.5	(D)	.2	5.8
	Texas.....	E2	62	17	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	54.0
	Wisconsin.....	E1	28	16	.7	15.7	.5	1.0	9.6	36.5	11.5	47.6	(D)	CC	(D)
34	Fabricated metal products.....	E1	36 092	13 884	1 458.0	34 999.7	1 077.8	2 183.4	22 781.3	74 957.3	72 668.5	147 366.1	4 816.4	1 459.7	58 927.6
	Alabama.....	E1	495	201	23.3	460.8	17.2	33.9	295.1	1 012.6	1 106.9	2 128.7	49.9	23.0	837.3
	Arizona.....	E1	390	110	8.5	169.0	6.4	13.0	112.3	326.4	358.4	712.5	15.2	7.9	260.2
	Arkansas.....	-	248	114	17.3	349.8	13.1	26.9	232.2	913.5	1 173.0	2 074.4	45.4	14.5	556.3
	California.....	E1	4 744	1 669	144.2	3 421.3	106.6	217.5	2 168.8	7 441.7	6 402.5	13 764.8	377.4	139.9	5 786.3
	Colorado.....	-	399	106	16.3	444.6	10.9	21.9	248.6	939.3	545.5	1 501.9	56.3	16.9	675.9
	Connecticut.....	E1	996	406	41.6	992.5	30.4	62.0	622.6	2 118.5	1 398.3	3 510.6	110.0	45.8	1 751.4
	Delaware.....	E1	50	21	1.8	35.0	1.3	2.6	22.7	80.1	69.3	148.9	3.2	1.4	47.9
	Florida.....	E2	1 357	405	35.1	686.3	25.8	52.5	426.8	1 539.3	1 703.5	3 221.3	80.0	29.6	1 008.6
	Georgia.....	E1	568	237	22.1	438.3	17.1	34.7	297.0	1 068.9	1 344.1	2 400.9	58.7	19.5	736.1
	Hawaii.....	E3	37	8	.5	11.7	.4	.7	8.1	36.2	49.2	84.7	1.1	.7	22.9
	Idaho.....	E2	77	21	1.8	35.9	1.4	2.6	23.8	81.0	71.3	149.4	3.1	1.5	57.8
	Illinois.....	E1	2 484	1 073	109.5	2 767.3	82.0	169.5	1 839.5	6 071.9	5 586.0	11 644.8	328.9	113.1	4 502.2
	Indiana.....	-	1 056	524	58.7	1 444.8	45.0	91.5	1 009.7	3 025.2	2 947.9	6 026.9	368.9	51.2	2 067.6
	Iowa.....	-	293	114	16.5	388.2	11.6	23.2	234.0	764.1	692.1	1 450.9	34.7	17.4	763.4
	Kansas.....	E2	266	93	8.4	169.7	6.1	11.5	99.0	348.6	300.0	651.0	(D)	8.7	329.6
	Kentucky.....	-	350	178	18.2	402.6	13.6	27.1	267.4	957.6	1 092.4	2 052.5	63.6	18.1	756.4
	Louisiana.....	E1	316	93	10.0	210.9	7.1	14.3	133.3	438.7	407.7	846.4	15.8	17.6	714.3
	Maine.....	E1	115	29	3.3	74.8	2.4	4.8	49.1	159.8	112.2	264.5	5.6	3.5	123.5
	Maryland.....	E2	343	136	11.8	264.3	8.5	17.2	172.1	561.7	747.5	1 250.8	38.2	12.4	532.4
	Massachusetts.....	E1	1 158	441	42.1	1 028.6	30.5	61.0	643.4	2 191.4	1 449.2	3 652.9	127.7	50.7	2 004.9
	Michigan.....	E1	2 479	1 090	121.9	3 312.7	95.4	196.4	2 359.9	6 579.1	6 673.8	13 242.9	630.0	102.6	4 423.5
	Minnesota.....	-	748	294	35.9	986.7	22.9	46.1	521.6	2 041.8	1 815.9	3 836.9	144.7	30.9	1 292.7
	Mississippi.....	E1	197	93	12.4	233.6	9.5	18.5	160.1	542.5	506.3	1 047.8	22.5	10.9	432.0
	Missouri.....	-	715	278	37.7	953.7	26.1	52.5	564.5	2 221.3	1 422.5	3 627.6	84.9	37.0	1 507.1
	Montana.....	E4	55	8	.5	8.9	.4	.7	5.8	19.3	21.2	40.3	.7	.8	23.6
	Nebraska.....	-	118	52	6.4	137.1	4.6	9.1	88.3	332.8	382.2	714.1	12.7	6.9	287.9
	Nevada.....	E4	84	24	2.2	46.7	1.5	2.9	29.9	86.2	76.4	162.2	1.6	2.2	106.1
	New Hampshire.....	E1	186	61	6.5	129.5	4.9	9.9	88.1	282.4	213.3	492.5	11.4	6.7	238.2
	New Jersey.....	E1	1 443	520	47.2	1 178.4	34.4	70.2	750.5	2 389.5	2 457.2	4 855.2	136.9	52.9	2 119.1
	New Mexico.....	E2	92	17	1.0	16.4	.7	1.3	9.8	34.4	40.5	75.2	.9	1.1	27.9
	New York.....	E2	2 213	735	68.8	1 630.4	51.2	102.2	1 073.3	3 395.5	2 853.3	6 264.1	192.8	76.5	2 730.8
	North Carolina.....	E1	628	273	30.5	631.6	23.0	45.9	412.9	1 539.8	1 782.0	3 315.1	86.2	27.7	1 094.5
	North Dakota.....	E1	36	6	.5	10.9	.4	.8	6.8	22.7	33.2	56.3	.7	.4	13.2
	Ohio.....	-	2 498	1 137	140.2	3 861.4	103.1	213.5	2 603.4	8 053.1	8 872.2	16 774.9	813.0	130.8	5 937.4
	Oklahoma.....	E1	491	145	14.8	324.7	10.4	21.4	201.4	793.3	681.0	1 478.2	28.9	23.0	944.3
	Oregon.....	E1	456	121	10.1	227.3	7.5	14.6	144.1	463.1	426.5	887.5	14.8	9.8	420.2
	Pennsylvania.....	E1	1 978	854	94.2	2 288.7	68.9	138.6	1 469.8	4 696.4	4 773.3	9 503.4	222.0	95.3	3 702.6
	Rhode Island.....	E1	391	119	14.9	308.5	11.2	22.5	204.2	623.3	483.5	1 105.1	17.3	15.4	475.5
	South Carolina.....	-	321	140	16.0	318.9	12.5	24.8	221.7	798.2	885.0	1 681.2	46.4	13.3	536.9
	South Dakota.....	E1	39	11	.9	18.9	.7	1.4	10.4	39.6	62.8	102.3	1.2	1.1	35.7
	Tennessee.....	-	622	292	35.4	707.8	27.7	55.4	483.4	1 645.1	1 622.0	3 272.3	82.3	30.5	1 061.4
	Texas.....	E1	2 445	778	72.4	1 617.6	52.3	104.1	992.0	3 281.4	3 676.2	6 962.1	157.4	99.3	4 185.6
	Utah.....	E2	221	70	6.0	129.3	4.2	8.5	79.7	289.1	277.6	556.8	21.6	6.2	221.7
	Vermont.....	E1	76	16	3.9	108.5	2.3	4.9	49.4	281.2	165.7	440.4	14.6	4.0	212.5
	Virginia.....	-	327	134	17.6	387.0	13.2	26.9	264.4	848.4	1 366.3	2 218.2	52.0	15.5	686.2

See footnotes at end of table.

Table 2. Industry Group Statistics by State: 1987 and 1982—Con.

[Includes industry groups with 450 manufacturing employees or more. Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes.]

1987 SIC code	Industry group and geographic area	1987											1982		
		E ¹	All establishments ²		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materials ⁴ (million dollars)	Value of shipments ⁴ (million dollars)	New capital expend- itures (million dollars)	All em- ployees ³ (1,000)	Value added by manu- facture (million dollars)
			Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
34	Fabricated metal products—Con.														
	Washington	E1	567	144	12.2	296.9	8.7	17.3	181.7	635.7	735.4	1 373.2	41.3	11.7	490.2
	West Virginia	-	118	55	6.1	123.8	4.5	8.7	85.5	337.4	360.1	699.2	10.6	6.5	259.9
	Wisconsin	-	944	426	49.8	1 187.1	37.5	74.7	799.8	2 562.5	2 378.4	4 928.1	171.4	46.7	1 885.9
341	Metal cans and shipping containers	-	537	358	48.2	1 527.4	39.2	83.5	1 195.1	4 213.3	7 896.6	12 113.6	348.2	58.9	4 443.3
	Alabama	-	13	8	.7	19.5	.6	1.2	13.9	45.4	100.4	151.4	1.3	.7	43.8
	California	-	77	50	7.3	247.2	6.0	12.3	193.3	568.8	1 240.3	1 826.7	50.7	9.3	670.2
	Colorado	-	10	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Florida	-	17	10	1.3	49.7	1.1	2.4	39.8	163.8	307.3	463.5	12.8	2.0	145.1
	Georgia	-	15	11	1.9	54.9	1.6	3.6	43.8	129.3	258.8	397.1	7.1	2.1	149.5
	Illinois	-	46	32	5.3	166.0	4.2	9.1	130.1	420.8	573.6	1 006.4	11.1	6.9	419.3
	Indiana	-	10	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.7	102.7
	Louisiana	-	7	4	.5	9.2	.2	.5	5.6	22.0	51.8	73.9	.1	.8	51.8
	Maryland	-	14	9	1.0	32.5	.8	1.7	25.0	24.0	221.0	252.5	7.1	1.8	165.2
	Minnesota	-	10	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	133.0
	Missouri	-	10	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.6	136.0
	New Jersey	-	36	30	3.3	96.9	2.6	5.6	72.6	223.1	395.5	615.6	(D)	4.1	250.9
	New York	-	21	11	1.3	41.9	1.1	2.3	33.2	126.5	257.3	380.5	(D)	1.6	90.6
	North Carolina	-	9	8	1.2	43.5	1.0	2.0	33.8	122.9	286.8	408.4	15.1	1.3	116.6
	Ohio	-	38	30	4.6	130.5	3.8	8.0	103.1	378.4	649.3	1 028.2	33.0	4.7	423.8
	Pennsylvania	-	31	22	2.4	72.2	2.0	4.1	55.5	188.6	372.6	552.9	16.5	2.6	188.6
	South Carolina	-	4	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	94.0
	Texas	-	34	24	3.1	102.6	2.6	5.6	79.9	308.6	590.1	900.0	21.5	3.5	332.5
	Virginia	-	4	3	1.3	46.3	1.2	2.5	40.8	96.1	360.7	454.0	11.0	1.4	97.1
	Washington	-	10	6	.8	29.7	.7	1.5	24.2	106.2	185.6	294.7	(D)	.8	93.4
	Wisconsin	-	21	15	2.2	83.9	1.9	3.9	69.3	210.4	458.9	672.8	20.1	3.1	268.7
342	Cutlery, handtools, and hardware	-	2 328	959	145.2	3 388.9	110.5	217.4	2 275.3	8 030.5	5 466.9	13 480.6	449.1	140.9	6 040.7
	Alabama	-	20	9	2.1	37.2	1.6	3.1	26.0	101.8	45.5	146.2	4.7	1.9	73.4
	Arkansas	-	18	10	1.6	33.7	1.3	2.9	25.5	68.5	61.8	139.3	(D)	1.3	52.7
	California	E1	338	125	13.7	321.0	10.5	20.5	202.5	717.3	418.5	1 133.4	33.4	13.1	528.8
	Colorado	-	17	6	1.8	32.6	1.5	3.1	25.1	113.7	72.5	184.6	(D)	1.7	63.9
	Connecticut	-	91	52	9.1	218.5	6.4	13.5	132.8	552.3	260.7	805.1	37.0	10.9	488.7
	Florida	E1	73	25	2.9	46.5	2.3	4.3	29.6	112.4	78.5	196.9	4.5	1.6	37.5
	Georgia	-	36	16	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	42.4
	Illinois	-	161	76	12.9	311.6	9.4	18.1	190.8	726.7	502.3	1 215.0	47.4	13.0	507.2
	Indiana	-	75	30	4.2	90.6	3.1	5.9	57.6	247.9	155.4	399.1	9.4	4.3	146.4
	Iowa	E1	27	7	.9	16.1	.7	1.3	10.5	44.9	45.2	92.7	(D)	.9	37.3
	Kentucky	E1	30	16	2.3	48.3	1.7	3.5	31.4	138.0	105.9	242.0	(D)	1.7	62.1
	Maryland	E1	15	7	.5	9.8	.4	.9	7.0	20.3	15.6	36.1	2.6	AA	(D)
	Massachusetts	-	97	46	7.9	195.0	6.1	11.8	136.3	576.7	203.9	799.6	41.0	8.4	449.0
	Michigan	-	160	67	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	11.7	588.4
	Minnesota	-	61	22	3.3	71.4	2.3	4.5	42.3	159.6	152.8	309.6	11.0	3.0	111.0
	Mississippi	E1	19	9	1.0	18.0	.7	1.4	12.8	55.9	43.2	98.4	2.0	.8	30.6
	Missouri	E1	55	24	2.1	41.5	1.5	3.0	24.9	98.7	53.7	151.2	4.4	1.5	59.4
	Nebraska	-	9	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	29.3
	New Jersey	-	72	26	6.2	174.9	5.0	9.9	132.5	328.8	350.9	679.5	27.2	7.3	285.0
	New York	-	161	68	8.7	198.9	6.9	12.8	144.1	433.8	337.6	771.3	32.0	11.1	398.0
	North Carolina	-	54	34	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.8	180.5
	Ohio	E1	154	74	12.5	351.3	9.2	18.3	237.6	764.9	565.6	1 336.8	33.0	11.4	655.7
	Oklahoma	-	17	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
	Oregon	-	34	9	2.2	48.6	1.6	3.0	28.1	110.7	69.1	176.7	5.4	2.2	87.3
	Pennsylvania	E1	122	55	6.1	128.6	4.7	9.6	86.7	296.4	184.4	488.1	17.5	6.2	203.7
	South Carolina	-	18	14	3.1	61.1	2.4	4.8	41.3	157.4	68.0	224.7	8.2	2.6	108.3
	Tennessee	-	43	26	5.2	100.2	4.3	8.3	73.5	289.8	187.4	486.3	(D)	3.9	172.8
	Texas	E2	91	24	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.1	76.3
	Virginia	-	18	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.6	74.8
	Washington	E1	45	10	1.1	21.7	.9	1.8	14.3	39.4	24.7	66.7	1.1	.4	14.1
	West Virginia	-	6	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	70.5
	Wisconsin	-	63	30	5.2	133.5	4.1	8.0	96.2	295.3	144.7	441.4	20.8	5.1	250.5
343	Plumbing and heating, except electric	E1	833	322	45.5	1 004.5	32.4	66.5	600.6	2 853.7	2 466.8	5 282.7	125.8	47.9	2 022.6
	Alabama	-	7	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	39.3
	California	E1	122	57	7.5	160.9	5.4	11.4	87.4	434.3	361.0	796.4	(D)	5.9	228.8
	Connecticut	E1	26	11	1.1	22.8	.8	1.7	13.6	43.6	46.0	89.8	1.0	1.5	51.6
	Georgia	E2	12	7	.6	10.9	.4	.8	6.0	26.3	23.6	49.5	3.1	.6	17.2
	Illinois	E1	49	20	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	Indiana	-	26	12	2.8	70.9	2.1	5.0	50.1	273.8	186.2	458.7	12.4	2.5	158.6
	Kansas	-	9	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9	30.6
	Kentucky	-	5	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Massachusetts	E1	22	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	50.8
	Michigan	E1	33	9	1.2	26.5	.7	1.4	12.2	61.1	80.1	140.8	(D)	1.5	66.6
	Minnesota	E2	24	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	14.6
	New Jersey	-	29	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.5	53.2
	New York	E1	50	16	2.1	44.5	1.5	2.9	25.6	126.0	103.2	227.6	(D)	2.2	71.2
	North Carolina	-	25	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.5	51.4
	Ohio	-	39	21	2.8	71.1	1.7	3.5	33.8	252.6	260.7	512.2	5.6	3.1	152.5
	Oklahoma	-	15	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	Pennsylvania	E1	60	29	3.5	83.2	2.5	5.1	49.9	244.3	223.3	461.8	13.8	3.3	139.5
	South Carolina	-	13	5	.7	15.2	.6	1.2	9.2	36.3	28.6	61.9	4.3	.7	22.9
	Tennessee	-	11	6	1.0	19.0	.8	1.6	13.9	61.5	52.7	116.0	(D)	1.4	56.3
	Texas	E1	41	12	1.8	37.0	1.4	2.7	22.6	118.1	88.4	197.8	(D)	2.0	75.5

See footnotes at end of table.

Table 2. Industry Group Statistics by State: 1987 and 1982—Con.

[Includes industry groups with 450 manufacturing employees or more. Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes.]

1987 SIC code	Industry group and geographic area	1987												1982	
		All establishments ²		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materials ⁴ (million dollars)	Value of shipments ⁴ (million dollars)	New capital expend- itures (million dollars)	All em- ployees ³ (1,000)	Value added by manu- facture (million dollars)	
		E ¹	Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							Wages (million dollars)
34	Fabricated metal products—Con.														
343	Plumbing and heating, except electric—Con.														
	Virginia	E3	10	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	43.3
	Washington	E1	26	6	.6	10.5	.3	.6	5.8	21.1	21.8	42.0	(D)	.6	22.8
	West Virginia	-	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	Wisconsin	-	20	9	2.5	63.4	1.8	3.6	39.3	152.6	113.2	262.7	(D)	3.2	154.9
344	Fabricated structural metal products	E1	12 583	4 754	407.2	9 042.2	291.2	584.3	5 536.5	18 682.9	21 817.4	40 416.1	802.5	421.9	15 466.3
	Alabama	E1	260	113	10.2	207.0	7.1	14.1	125.8	408.6	575.9	984.3	24.3	10.3	376.4
	Arizona	E1	179	58	5.0	96.6	3.7	7.4	61.7	168.4	254.1	451.1	6.8	5.0	140.1
	Arkansas	E1	114	45	4.3	86.6	3.1	6.5	53.8	187.9	252.2	440.1	6.1	3.9	129.3
	California	E2	1 612	573	40.7	952.3	29.5	59.1	591.4	1 972.7	1 942.4	3 850.8	82.0	35.4	1 404.4
	Colorado	E2	178	48	3.6	74.1	2.5	4.9	44.7	132.8	153.0	288.1	5.7	3.6	113.9
	Connecticut	E1	191	57	4.5	117.4	2.9	5.7	63.1	245.0	249.5	493.4	11.9	4.2	161.6
	Delaware	E1	28	15	1.2	23.7	.9	1.7	16.3	49.5	51.1	99.9	2.2	.6	20.0
	Florida	E2	687	236	18.8	357.1	13.6	27.9	215.5	750.2	941.2	1 680.6	36.3	16.4	550.1
	Georgia	E1	291	129	10.5	200.7	7.7	15.5	124.0	504.2	655.7	1 151.5	20.6	9.5	339.8
	Idaho	E2	32	11	.7	12.9	.5	1.0	8.4	29.6	28.6	59.4	.9	.6	22.8
	Illinois	E1	536	219	18.5	431.4	13.2	26.7	263.3	987.2	1 127.4	2 090.1	41.5	16.7	635.1
	Indiana	E1	324	156	12.1	258.5	8.9	17.5	158.8	463.2	659.9	1 198.0	(D)	12.1	436.3
	Iowa	E1	114	47	4.2	88.5	3.1	6.4	57.3	190.0	251.5	434.0	7.0	4.3	145.2
	Kansas	E2	134	50	4.1	84.7	2.9	5.7	50.3	160.6	201.3	366.4	6.3	4.6	144.8
	Kentucky	E1	128	60	4.6	97.5	3.3	6.3	58.0	197.4	243.0	437.1	14.8	3.1	102.9
	Louisiana	E2	168	53	4.6	95.4	3.4	7.3	62.7	178.8	228.8	410.5	10.5	11.0	446.2
	Maine	E1	48	15	1.3	27.8	.9	1.7	15.8	61.4	55.8	115.8	2.8	1.1	40.1
	Maryland	E3	159	69	5.3	117.0	3.7	7.4	70.9	300.6	272.8	508.8	9.2	6.2	214.8
	Massachusetts	E3	379	128	9.1	229.9	6.6	13.0	139.2	423.0	352.7	774.2	14.9	7.5	270.5
	Michigan	E1	478	152	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	11.5	441.2
	Minnesota	E1	240	94	7.4	182.6	5.1	10.4	109.7	360.7	358.2	713.7	16.5	5.5	206.1
	Mississippi	E1	89	45	5.5	101.8	3.9	7.4	64.6	225.6	233.2	457.7	12.3	5.8	242.7
	Missouri	E1	265	115	10.8	255.7	7.5	15.9	153.5	516.6	588.6	1 104.7	29.7	13.6	548.7
	Nebraska	E1	59	27	3.0	63.2	2.0	3.9	37.5	156.9	243.0	394.6	4.2	3.0	122.6
	Nevada	E3	33	13	.8	16.5	.6	1.1	11.4	26.2	30.4	56.7	.8	.5	20.9
	New Hampshire	E2	64	22	2.0	41.8	1.4	3.1	26.3	89.4	89.5	174.6	3.7	2.3	69.1
	New Jersey	E2	502	168	12.3	307.9	8.7	18.2	185.1	621.9	694.0	1 320.1	25.4	12.2	464.6
	New Mexico	E1	48	11	.7	12.5	.5	.9	7.6	25.0	34.5	60.1	.5	.7	17.5
	New York	E3	776	259	20.9	506.7	14.7	29.4	305.1	990.6	940.0	1 921.8	30.2	21.6	767.5
	North Carolina	E1	258	110	9.9	192.7	7.4	14.7	123.4	404.4	609.1	1 007.8	18.5	10.4	361.2
	Ohio	E1	605	260	26.7	636.1	19.0	37.6	389.7	1 466.1	1 829.1	3 277.9	48.6	27.2	1 086.9
	Oklahoma	E1	221	76	7.1	157.8	4.9	10.2	94.6	337.9	329.9	673.9	12.7	13.3	510.0
	Oregon	E2	195	49	4.0	90.4	2.8	5.6	54.1	176.0	199.1	375.1	4.3	3.4	134.8
	Pennsylvania	E1	729	310	30.1	701.7	21.2	41.7	418.5	1 363.4	1 712.0	3 083.2	55.4	30.8	1 122.9
	Rhode Island	-	53	17	6.9	171.0	5.2	10.6	113.6	362.7	289.3	650.8	6.1	5.9	216.9
	South Carolina	E1	142	66	4.9	101.8	3.8	7.9	70.8	224.0	327.8	553.2	5.1	5.0	176.7
	South Dakota	E1	19	6	.5	11.3	.3	.7	5.8	19.0	34.6	53.4	.7	.6	20.8
	Tennessee	-	247	116	12.1	248.5	9.0	18.2	163.0	482.5	585.7	1 060.9	25.5	12.8	410.6
	Texas	E1	1 001	382	32.5	654.3	23.4	46.2	397.4	1 243.4	1 807.7	3 057.0	44.0	46.6	1 710.1
	Utah	E3	103	42	3.6	77.3	2.5	5.0	46.9	181.9	189.1	363.9	6.4	4.0	136.3
	Virginia	E1	174	81	8.2	167.6	5.6	11.6	100.6	333.6	416.4	758.9	11.9	6.7	220.6
	Washington	E2	263	78	6.4	162.6	4.3	8.4	90.2	316.5	373.8	691.2	13.5	6.9	256.6
	West Virginia	E1	55	23	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.0	74.5
	Wisconsin	E1	280	126	12.4	280.8	8.9	17.6	174.9	607.2	644.6	1 247.1	29.1	11.9	407.2
345	Screw machine products, bolts, etc. ..	E1	2 572	1 106	94.7	2 270.3	72.8	153.5	1 553.0	4 766.3	3 164.6	7 890.2	250.1	94.0	3 309.2
	Alabama	E2	14	9	.5	9.8	.4	.8	7.2	21.4	41.6	62.5	.6	.5	13.7
	Arizona	E1	17	8	.5	12.7	.4	.9	9.8	27.5	7.8	35.5	1.0	.3	10.4
	California	-	287	119	15.2	408.0	11.7	25.1	282.2	879.8	343.8	1 202.4	45.6	12.8	510.5
	Connecticut	E1	170	69	5.4	127.9	4.0	8.4	82.1	251.9	136.2	387.1	11.2	5.8	189.6
	Florida	E3	54	17	1.4	25.1	1.0	2.1	17.7	50.7	29.6	79.2	2.4	1.4	39.1
	Illinois	-	338	149	13.4	326.0	10.3	21.9	222.3	668.0	525.9	1 191.7	37.1	14.4	488.7
	Indiana	E1	82	42	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	Iowa	E1	16	10	.9	18.0	.7	1.4	12.7	37.3	36.8	73.8	(D)	.8	27.8
	Kentucky	-	15	8	.7	17.2	.5	1.2	12.0	38.5	54.9	94.2	1.7	1.0	36.9
	Massachusetts	E1	95	37	3.2	76.1	2.4	5.1	50.8	146.1	87.6	232.5	(D)	4.5	138.0
	Michigan	-	338	170	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	9.4	387.5
	Minnesota	E1	48	20	1.4	38.0	1.1	2.5	27.7	66.8	37.8	103.8	(D)	1.4	49.8
	Missouri	E1	48	22	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	34.4
	New Jersey	E1	118	43	3.8	95.1	2.7	5.9	61.6	183.4	113.4	300.3	9.4	4.2	158.2
	New York	E1	160	68	5.8	126.2	4.1	8.5	76.3	244.3	166.6	402.5	9.9	4.9	173.0
	North Carolina	-	19	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	Ohio	E1	256	114	8.9	213.0	6.7	14.2	145.1	464.1	357.2	823.1	26.5	9.3	329.8
	Pennsylvania	-	104	49	5.8	140.2	4.4	8.8	94.6	293.3	168.8	466.5	(D)	7.6	255.1
	Rhode Island	E4	44	14	1.0	19.5	.8	1.6	14.4	34.9	23.6	58.2	(D)	EE	(D)
	South Carolina	-	13	6	.5	8.5	.3	.6	5.6	15.9	7.7	23.5	1.1	.2	5.0
	Tennessee	-	22	11	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9	27.8
	Texas	E3	65	19	1.5	32.1	1.1	2.3	20.0	63.6	49.4	115.0	(D)	2.0	72.3
	Virginia	-	8	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	18.5
	Wisconsin	E1	90	39	2.7	57.2	2.1	4.5	41.1	121.2	70.4	191.1	13.6	2.3	77.7
346	Metal forgings and stampings	E1	4 070	1 941	255.3	7 235.0	202.6	418.9	5 309.1	13 175.0	15 178.8	28 409.8	1 718.4	236.3	9 709.8
	Alabama	-	31	8	1.7	35.9	1.4	2.9	27.7	42.7	74.0	118.2	3.8	1.9	69.0
	Arizona	E1	25	10	.7	14.6	.5	1.1	10.5	30.8	18.9	49.9	2.2		

See footnotes at end of table.

Table 2. Industry Group Statistics by State: 1987 and 1982—Con.

[Includes industry groups with 450 manufacturing employees or more. Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes.]

1987 SIC code	Industry group and geographic area	1987											1982	
		All establishments ²		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materials ⁴ (million dollars)	Value of shipments ⁴ (million dollars)	New capital expend- itures (million dollars)	All em- ployees ³ (1,000)	Value added by manu- facture (million dollars)
		E ¹	Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
34	Fabricated metal products—Con.													
346	Metal forgings and stampings—Con.													
	Connecticut	E2	148	64	7.2	162.3	5.6	11.1	111.2	314.5	256.8	568.0	15.8	6.5
	Florida	E1	83	23	2.4	43.7	1.9	3.8	29.5	94.7	103.3	196.9	4.5	1.7
	Georgia	E1	41	26	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.9	77.9
	Illinois	E1	405	210	23.3	685.7	18.4	38.2	497.1	1 367.1	1 400.3	2 780.9	103.6	24.6
	Indiana	-	150	95	17.5	544.6	14.2	29.7	424.6	875.8	1 104.7	1 971.1	268.8	12.1
	Iowa	-	35	17	2.8	55.4	2.1	4.0	35.4	117.3	106.6	224.8	10.0	2.1
	Kansas	E1	14	7	.5	10.5	.4	.7	6.1	21.1	18.9	39.9	1.1	.5
	Kentucky	-	41	31	3.0	60.3	2.3	4.3	41.6	108.6	141.2	256.3	8.3	2.3
	Maryland	E4	25	10	.7	14.1	.5	1.0	9.1	22.5	20.1	45.9	(D)	.5
	Massachusetts	E1	133	59	6.3	159.8	4.5	9.0	97.5	309.1	275.3	579.9	25.5	11.4
	Michigan	-	531	320	54.9	1 752.1	45.2	95.2	1 338.8	3 254.4	3 875.4	7 136.6	421.7	44.5
	Minnesota	E1	107	46	4.5	105.7	3.5	7.2	74.7	187.6	141.8	327.4	22.7	3.7
	Mississippi	E2	22	13	1.8	28.7	1.6	2.9	21.1	63.7	87.3	150.6	1.8	1.7
	Missouri	E1	71	29	2.3	53.9	1.7	3.2	31.5	107.0	98.2	204.7	10.0	2.0
	New Jersey	E1	183	60	5.3	128.5	4.0	7.8	80.7	238.0	217.8	454.9	9.6	6.5
	New York	E1	268	99	10.5	299.9	8.5	17.1	222.9	590.3	537.3	1 141.5	68.8	12.0
	North Carolina	E1	48	20	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.5
	Ohio	-	434	264	43.7	1 463.4	35.8	77.2	1 149.7	2 323.0	3 305.2	5 605.6	545.9	39.1
	Oklahoma	-	26	4	.5	13.6	.4	.9	10.2	33.7	50.3	78.9	2.9	.6
	Oregon	E2	32	12	.6	12.6	.5	.9	8.9	23.7	18.1	41.5	.7	.6
	Pennsylvania	-	199	104	15.1	439.0	11.9	25.2	326.8	798.3	867.2	1 666.3	38.1	14.6
	Rhode Island	E2	45	14	1.0	18.4	.7	1.4	11.5	37.7	41.3	78.0	2.9	1.0
	South Carolina	-	16	8	1.4	28.2	1.2	2.4	20.7	61.7	106.4	171.0	9.3	.9
	Tennessee	-	60	33	3.6	80.0	2.7	5.3	46.0	148.9	333.3	486.5	15.9	2.4
	Texas	E1	119	56	5.9	154.5	4.0	8.1	91.7	230.1	234.4	503.7	22.8	4.4
	Virginia	E1	17	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC
	Washington	-	25	7	.5	12.7	.4	.8	8.5	31.6	52.9	82.6	2.4	.4
	West Virginia	-	14	7	1.0	18.4	.5	1.0	9.4	40.8	47.1	94.8	2.2	1.5
	Wisconsin	-	137	83	13.4	323.7	10.1	19.8	219.8	639.6	573.0	1 218.3	45.1	12.6
347	Metal services, n.e.c.	E1	5 265	1 659	112.6	2 167.0	88.2	176.9	1 443.5	4 628.9	3 172.1	7 789.5	245.5	96.9
	Alabama	E3	51	17	1.2	20.5	1.0	1.8	14.2	39.2	29.4	68.5	1.8	.9
	Arizona	E3	51	14	.9	15.4	.7	1.4	10.4	26.6	14.9	41.4	1.4	.6
	California	E2	889	285	18.6	346.4	14.7	29.7	230.7	719.6	432.8	1 144.6	(D)	17.2
	Colorado	E4	51	11	.6	9.9	.4	1.0	6.7	18.3	11.3	29.6	.7	.6
	Connecticut	E1	136	52	3.8	90.4	3.0	6.0	59.8	173.7	88.4	264.4	11.5	3.3
	Florida	E3	142	34	1.9	33.9	1.5	2.9	22.0	70.5	45.4	114.6	4.2	1.6
	Georgia	E3	40	8	.7	12.3	.6	1.1	8.1	22.5	12.3	34.7	1.9	.6
	Illinois	E1	389	127	8.6	181.3	6.6	13.5	117.7	412.9	269.2	680.7	18.8	8.7
	Indiana	E1	141	67	4.8	89.6	3.8	7.6	62.7	208.5	130.2	338.8	12.6	3.8
	Kansas	E1	26	10	.5	9.7	.4	.7	6.5	17.5	6.8	24.2	(D)	AA
	Kentucky	-	34	13	.6	10.6	.5	.9	6.8	23.1	24.4	47.5	1.2	.5
	Louisiana	E3	36	12	.6	11.8	.4	.9	7.7	27.3	18.9	46.1	1.0	.9
	Maryland	E4	45	9	.7	16.2	.6	1.2	11.3	35.5	22.3	57.0	3.0	.7
	Massachusetts	E2	189	75	4.1	80.4	3.0	6.0	51.0	151.1	75.4	226.3	9.6	4.1
	Michigan	E1	447	173	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	7.7
	Minnesota	E1	109	48	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.2
	Missouri	E1	106	24	2.9	63.4	2.3	4.7	39.0	127.2	56.3	182.3	13.9	2.0
	New Jersey	E2	200	55	3.4	70.5	2.6	5.4	43.5	143.9	83.2	226.3	5.3	3.7
	New York	E3	333	92	6.3	108.5	5.0	9.8	75.9	222.1	119.3	341.7	12.7	6.6
	North Carolina	E2	76	23	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3
	Ohio	-	424	141	11.1	230.0	8.8	18.0	160.8	588.4	656.5	1 247.6	30.6	7.9
	Oklahoma	E3	56	16	.8	14.3	.6	1.3	9.4	29.2	19.2	47.6	1.4	1.1
	Oregon	E3	49	13	.7	13.0	.5	1.1	9.3	21.7	14.6	36.3	.8	.6
	Pennsylvania	E2	253	72	4.7	97.9	3.5	6.7	60.6	213.2	233.8	446.3	14.6	3.9
	Rhode Island	E3	161	47	3.3	52.2	2.6	5.1	35.6	89.9	50.4	141.5	4.3	2.5
	South Carolina	E1	34	10	.8	15.2	.6	1.2	9.7	38.3	90.9	130.1	(D)	AA
	Tennessee	-	74	31	2.6	42.4	2.1	4.3	29.9	99.8	63.8	163.0	(D)	1.5
	Texas	E2	308	79	5.3	105.1	3.9	8.5	67.6	230.5	148.3	377.1	8.7	6.2
	Washington	E2	67	14	1.1	21.8	.9	1.8	14.8	45.3	15.8	60.7	1.7	.9
	Wisconsin	E1	136	49	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF
348	Ordinance and accessories, n.e.c.	-	376	159	87.6	2 458.2	54.3	108.0	1 258.8	5 349.1	2 413.9	7 643.6	177.9	79.4
	Alabama	-	6	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5
	Arkansas	-	10	7	3.1	67.4	2.1	4.2	37.5	253.0	369.2	596.2	7.4	1.8
	California	-	45	19	6.1	171.1	3.8	8.1	85.2	393.2	263.1	657.5	(D)	7.7
	Colorado	-	8	1	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF
	Connecticut	-	14	9	3.3	80.7	2.6	5.2	56.0	196.0	106.1	309.4	(D)	5.7
	Florida	-	20	8	1.1	19.0	.9	1.6	11.9	44.1	22.2	64.4	2.5	.5
	Idaho	-	3	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC
	Illinois	-	19	12	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF
	Indiana	-	8	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE
	Iowa	-	4	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE
	Kansas	-	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC
	Louisiana	-	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC
	Maine	-	3	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC
	Massachusetts	-	9	8	3.4	87.5	2.7	5.4	59.3	183.5	83.0	265.4	(D)	5.3
	Minnesota	-	11	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	9.6
	Mississippi	-	2	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB
	Missouri	-	8	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF
	Nebraska	-	6	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC
	Nevada	E9	4	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC
	New Hampshire	-	5	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE

See footnotes at end of table.

Table 2. Industry Group Statistics by State: 1987 and 1982—Con.

[Includes industry groups with 450 manufacturing employees or more. Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes.]

1987 SIC code	Industry group and geographic area	1987												1982	
		All establishments ²		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materials ⁴ (million dollars)	Value of shipments ⁴ (million dollars)	New capital expend- itures (million dollars)	All em- ployees ³ (1,000)	Value added by manu- facture (million dollars)	
		E ¹	Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							Wages (million dollars)
34	Fabricated metal products—Con.														
348	Ordinance and accessories, n.e.c.— Con.														
	New Jersey	-	11	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	15.2	
	New York	-	17	6	2.7	68.9	2.1	4.7	53.4	142.9	69.3	235.5	(D)	3.6	
	Ohio	-	17	10	6.8	224.1	2.3	4.5	52.0	403.1	143.3	415.3	10.9	2.9	
	Pennsylvania	-	22	9	4.3	94.3	3.3	6.9	66.8	179.7	93.9	289.1	(D)	3.6	
	Tennessee	-	13	8	2.9	61.6	2.4	4.7	47.1	141.1	27.9	167.8	1.2	1.6	
	Texas	-	20	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5.0	
	Vermont	-	2	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	
	Wisconsin	-	12	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	
349	Miscellaneous fabricated metal products	E1	7 528	2 626	261.7	5 906.1	186.6	374.5	3 609.3	13 257.5	11 091.3	24 339.9	698.9	283.6	11 597.6
	Alabama	-	93	29	5.2	103.9	3.7	7.2	61.0	273.4	171.3	450.3	11.8	5.4	179.3
	Arizona	E1	80	14	1.0	19.6	.7	1.5	13.3	39.6	29.5	69.9	2.0	.9	37.3
	Arkansas	-	56	28	5.7	113.9	4.6	9.2	79.8	241.1	284.0	532.1	24.0	5.6	218.9
	California	E2	909	276	20.8	476.9	14.5	29.3	274.2	1 077.1	788.3	1 855.6	57.1	23.9	981.1
	Colorado	E1	80	21	2.3	53.6	1.7	3.1	33.7	100.8	75.1	186.2	5.0	2.8	99.2
	Connecticut	E1	215	90	7.1	169.1	5.0	10.2	101.4	325.6	233.3	557.4	16.1	7.7	277.6
	Florida	E2	257	49	5.1	107.6	3.5	7.3	58.9	244.8	169.3	410.3	12.4	4.1	122.6
	Georgia	E1	114	37	3.4	66.8	2.7	5.4	45.7	186.1	185.3	365.4	16.0	2.2	83.4
	Illinois	E1	541	228	19.9	470.4	14.7	30.8	302.1	1 041.9	905.2	1 952.9	49.5	22.4	864.5
	Indiana	-	240	110	11.3	246.1	8.5	16.8	162.7	519.0	474.0	993.2	26.9	10.0	327.0
	Iowa	-	65	25	5.5	155.7	3.3	6.7	80.3	251.9	176.0	425.9	12.8	7.0	349.1
	Kansas	E3	48	7	.6	12.0	.4	.8	7.4	28.9	26.3	55.0	(D)	.9	35.0
	Kentucky	-	93	41	5.0	116.3	3.9	7.9	79.5	310.8	409.0	727.2	24.2	7.5	362.5
	Louisiana	E1	76	20	2.5	55.0	1.7	3.1	32.3	109.4	91.6	198.0	3.7	3.6	138.2
	Maine	E1	29	8	.9	21.2	.7	1.5	16.0	51.9	29.5	78.4	1.2	.6	21.5
	Maryland	E2	72	26	2.9	62.0	2.1	4.1	40.7	135.3	153.6	286.6	7.5	2.3	89.5
	Massachusetts	E1	227	75	6.7	162.7	4.2	8.4	84.8	318.4	270.7	590.4	16.9	7.9	310.2
	Michigan	E1	471	192	16.9	380.4	12.2	24.5	234.3	757.4	561.2	1 324.0	43.2	15.7	616.8
	Minnesota	E1	138	41	4.4	108.0	2.9	5.5	60.6	214.5	151.4	365.1	(D)	3.9	141.9
	Mississippi	-	33	13	1.7	34.0	1.3	2.6	22.4	63.3	77.7	141.5	4.2	1.4	54.5
	Missouri	-	140	47	6.3	124.2	4.6	9.1	79.2	315.2	246.2	558.9	13.2	5.3	207.3
	Nebraska	E1	22	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.7	63.3
	New Hampshire	E1	41	17	1.9	35.3	1.5	2.8	25.6	79.4	71.2	151.6	4.9	1.6	55.6
	New Jersey	E1	292	121	10.3	254.4	6.9	13.9	142.3	556.1	501.9	1 056.7	21.4	12.9	542.4
	New York	E2	427	116	10.5	234.8	7.4	14.7	137.0	519.0	322.7	841.8	20.7	12.8	464.5
	North Carolina	E1	136	62	7.2	150.9	5.1	10.1	95.8	488.6	394.6	880.0	27.9	5.9	264.9
	Ohio	E1	531	223	23.2	541.8	15.8	32.2	331.6	1 412.6	1 105.3	2 528.2	78.8	25.2	1 195.7
	Oklahoma	E1	132	37	4.5	96.5	2.9	5.6	53.6	217.2	160.1	380.2	7.6	5.9	241.0
	Oregon	E1	100	21	1.7	37.9	1.3	2.5	25.4	66.1	56.0	122.0	2.2	1.6	64.0
	Pennsylvania	-	458	204	22.2	531.6	15.4	30.4	310.4	1 123.8	917.3	2 049.3	48.4	22.8	903.4
	Rhode Island	E5	64	21	2.1	33.8	1.4	3.0	20.1	69.9	60.1	129.7	1.5	3.8	113.7
	South Carolina	E1	79	26	3.6	61.8	2.9	4.9	43.5	167.4	123.0	289.4	12.3	2.1	96.6
	Tennessee	-	139	55	6.7	126.1	5.2	10.3	86.8	341.6	287.9	622.3	(D)	5.4	194.6
	Texas	E1	566	176	15.2	356.9	10.8	22.0	209.5	722.6	658.3	1 359.3	46.7	27.5	1 314.3
	Utah	E1	59	16	1.2	28.5	.8	1.7	17.5	59.5	36.8	99.1	2.0	1.1	51.5
	Vermont	E1	19	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
	Virginia	-	61	20	3.8	86.3	3.1	6.3	66.1	214.9	359.6	572.0	20.8	2.9	178.1
	Washington	E3	112	18	1.4	30.4	1.0	1.9	18.8	58.4	50.4	108.7	1.8	1.2	43.0
	West Virginia	-	19	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9	39.0
	Wisconsin	E1	185	72	7.3	167.8	5.4	11.0	107.3	362.6	276.2	631.3	24.4	5.4	181.4
35	Industrial machinery and equipment	-	52 091	13 849	1 844.4	50 553.1	1 142.8	2 313.7	26 092.6	118 187.4	99 569.5	217 669.9	6 954.6	2 188.7	102 269.8
	Alabama	-	562	154	19.5	438.6	12.4	25.5	224.6	1 299.2	928.1	2 188.4	113.8	FF	(D)
	Arizona	-	578	141	19.6	571.7	9.3	19.2	187.8	1 419.9	1 249.5	2 654.6	90.9	23.4	1 112.4
	Arkansas	-	369	85	15.4	328.0	11.7	22.5	214.8	793.3	918.3	1 749.8	51.0	12.4	450.4
	California	E1	7 388	1 592	214.4	6 499.6	109.5	219.3	2 460.4	15 737.1	11 372.8	27 044.0	1 080.1	247.9	12 166.6
	Colorado	-	584	112	24.7	631.8	11.0	23.2	224.3	1 342.0	1 262.0	2 570.9	115.3	29.3	1 342.0
	Connecticut	E1	1 397	328	48.8	1 452.4	29.0	59.4	726.4	2 963.0	1 947.8	4 880.1	175.9	55.1	2 122.9
	Delaware	E1	68	16	1.5	34.4	1.1	2.2	21.8	72.5	53.0	123.4	2.1	1.8	67.4
	Florida	E1	1 390	316	35.4	987.7	18.1	37.1	341.1	2 365.5	3 621.0	6 013.4	89.9	33.5	1 785.8
	Georgia	E1	850	236	25.6	567.3	18.1	37.5	341.7	1 397.0	1 303.5	2 671.8	61.8	22.6	851.9
	Idaho	-	116	24	4.2	120.7	2.7	5.4	66.0	386.4	333.3	722.2	(D)	5.2	332.4
	Illinois	-	3 364	1 020	133.4	3 807.0	88.6	178.2	2 275.0	9 062.8	7 468.3	16 630.0	522.3	171.7	8 074.9
	Indiana	-	1 513	479	59.3	1 644.7	40.9	84.0	1 011.6	3 585.7	3 176.7	6 796.2	241.3	64.1	2 501.2
	Iowa	-	561	207	38.7	1 154.7	26.0	51.1	729.6	2 892.0	2 763.9	5 661.1	128.0	49.5	3 347.0
	Kansas	E1	560	182	21.2	512.4	13.7	26.9	274.4	1 126.7	1 108.4	2 231.9	58.3	24.0	962.3
	Kentucky	-	486	149	29.0	788.7	18.8	37.0	409.4	1 928.4	2 210.4	4 129.8	73.8	34.5	1 688.7
	Louisiana	E2	453	87	7.4	174.8	5.0	10.1	102.5	360.2	253.5	627.6	13.0	13.9	589.9
	Maine	-	147	37	3.9	93.2	2.7	5.5	57.5	258.9	160.5	408.4	10.6	5.0	258.4
	Maryland	E1	378	114	15.6	420.6	10.4	22.8	247.3	841.4	780.8	1 598.9	76.4	17.9	835.4
	Massachusetts	-	1 722	516	77.8	2 216.3	41.7	84.3	882.6	6 472.1	4 016.1	10 534.1	317.0	96.2	5 142.0
	Michigan	-	4 179	1 270	120.7	3 584.1	82.6	172.8	2 170.9	6 622.0	6 417.2	13 063.2	572.5	126.2	5 463.0
	Minnesota	-	1 223	388	64.7	1 976.7	33.8	72.8	766.7	5 305.5	3 255.5	8 636.7	301.2	71.0	3 567.4
	Mississippi	-	280	71	12.9	282.1	9.2	19.3	176.2	674.9	804.7	1 480.4	28.9	13.2	517.9
	Missouri	E1	916	240	27.9	638.0	19.3	39.1	3						

See footnotes at end of table.

Table 2. Industry Group Statistics by State: 1987 and 1982—Con.

[Includes industry groups with 450 manufacturing employees or more. Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes.]

1987 SIC code	Industry group and geographic area	1987											1982		
		All establishments ²		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materials ⁴ (million dollars)	Value of shipments ⁵ (million dollars)	New capital expendi- tures (million dollars)	All em- ployees ³ (1,000)	Value added by manu- facture (million dollars)	
		E ¹	Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							Wages (million dollars)
35	Industrial machinery and equipment— Con.														
	North Dakota	-	101	21	2.8	69.2	1.7	3.4	32.2	228.4	212.8	434.3	9.9	3.3	140.5
	Ohio	-	3 778	1 126	140.5	3 849.0	94.2	191.6	2 312.4	8 227.6	6 463.5	14 718.6	387.1	163.6	6 844.4
	Oklahoma	-	677	141	22.9	576.3	14.8	28.5	319.0	1 192.0	1 424.5	2 614.8	78.3	38.9	1 598.6
	Oregon	E1	672	134	15.7	419.3	9.2	18.3	197.9	906.9	661.6	1 549.2	50.7	16.7	758.2
	Pennsylvania	E1	2 608	788	92.6	2 408.8	58.9	117.9	1 340.9	5 183.2	3 762.6	8 812.3	264.3	123.8	5 246.0
	Rhode Island	E1	293	55	5.6	136.0	3.6	7.2	76.4	307.4	159.9	462.8	14.3	7.9	275.6
	South Carolina	-	524	163	28.4	620.0	20.1	40.8	377.5	1 572.5	1 425.3	3 010.4	101.4	28.2	1 058.6
	South Dakota	-	95	39	4.3	84.2	3.1	6.4	53.1	204.7	214.8	412.2	11.8	4.1	116.5
	Tennessee	-	742	226	38.5	838.7	28.6	57.2	567.3	2 181.7	2 458.1	4 588.2	133.3	29.4	1 672.6
	Texas	E1	3 075	684	86.6	2 215.6	51.6	101.9	1 058.9	4 727.5	4 990.7	9 863.0	254.5	169.7	9 434.6
	Utah	E1	252	55	7.6	199.7	4.2	8.6	83.8	414.0	282.9	697.3	27.9	10.8	640.4
	Vermont	-	104	29	4.6	111.2	2.9	5.4	55.2	216.3	196.3	417.4	10.3	6.6	313.5
	Virginia	E1	568	169	18.3	437.2	12.2	25.2	242.2	972.7	998.1	1 930.0	50.9	19.0	701.3
	Washington	E1	816	157	18.5	474.2	11.2	22.4	229.9	1 043.2	671.5	1 698.9	55.4	16.8	679.0
	West Virginia	E1	219	44	4.6	108.2	3.3	6.2	65.0	244.7	203.2	431.4	7.6	6.0	206.8
	Wisconsin	-	1 690	572	91.9	2 532.1	61.7	122.3	1 539.3	6 132.6	5 047.3	11 189.6	418.9	98.5	4 986.1
	Wyoming	E2	68	5	.8	17.7	.6	1.2	10.9	36.5	25.8	62.9	2.9	2.0	73.8
351	Engines and turbines	-	359	192	86.9	2 905.8	56.8	116.5	1 717.4	7 039.5	7 638.9	14 570.4	620.7	112.0	6 069.3
	Alabama	-	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	California	-	51	21	7.0	229.6	3.5	7.3	88.4	347.7	382.4	730.6	35.5	6.0	396.6
	Colorado	-	2	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Connecticut	-	20	12	7.7	267.0	3.3	6.8	128.7	635.3	500.0	1 140.3	33.3	3.6	183.0
	Illinois	-	21	14	5.8	224.6	4.3	8.8	160.4	983.5	839.8	1 817.3	(D)	11.8	754.7
	Indiana	-	12	10	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	Iowa	-	9	8	1.0	30.7	.6	1.2	17.1	103.1	102.4	206.2	(D)	2.3	150.8
	Kentucky	-	3	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Maryland	-	2	1	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	Massachusetts	-	11	7	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	Michigan	-	23	13	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	9.5	482.6
	New Jersey	-	8	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	New York	-	22	9	6.5	270.9	4.3	9.7	124.9	616.6	483.6	1 027.5	(D)	11.0	670.5
	North Carolina	E2	9	8	3.5	99.9	2.4	4.9	54.8	309.4	338.0	658.9	22.8	2.9	294.7
	Ohio	-	19	12	3.0	100.0	2.1	4.0	67.0	214.9	281.2	502.7	15.9	4.3	305.1
	Oklahoma	-	6	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.5	65.9
	Pennsylvania	-	12	8	2.1	69.3	1.3	2.8	38.1	133.6	77.5	217.6	2.4	FF	(D)
	South Carolina	-	6	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.7	164.7
	Tennessee	-	7	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	Texas	-	28	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.3	95.2
	Wisconsin	-	25	20	17.9	556.6	14.1	28.5	432.2	1 276.2	1 255.5	2 532.9	89.0	19.6	994.9
352	Farm and garden machinery	-	1 799	545	82.0	1 916.8	58.2	110.6	1 185.1	5 625.4	5 933.3	11 474.3	311.3	113.8	6 146.3
	Alabama	E1	27	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	Arizona	-	8	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Arkansas	E1	42	7	1.5	22.0	1.0	1.8	13.1	62.4	140.1	203.2	(D)	1.6	53.1
	California	E3	183	36	3.5	66.6	2.5	4.5	33.4	166.2	150.3	313.5	5.3	5.0	126.4
	Colorado	E1	23	10	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8	27.8
	Florida	E4	63	14	.9	15.4	.6	1.1	9.0	40.8	44.4	84.1	1.0	.8	33.9
	Georgia	-	60	20	2.9	50.9	2.2	4.2	31.4	181.7	263.8	441.9	10.7	3.2	128.7
	Idaho	E2	26	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	Illinois	-	93	44	10.0	289.2	7.0	12.7	185.0	889.4	670.2	1 563.4	51.4	20.5	1 332.4
	Indiana	-	63	29	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.4	146.9
	Iowa	-	135	44	11.1	358.3	7.6	15.1	222.8	856.6	701.6	1 530.7	29.2	19.2	1 606.0
	Kansas	E1	95	44	4.2	87.1	3.0	5.6	49.5	162.8	182.8	345.6	7.7	5.0	198.8
	Kentucky	E3	16	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.6	49.4
	Maryland	-	4	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	Michigan	E1	44	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.0	68.0
	Minnesota	E1	111	29	2.9	51.0	1.9	3.4	28.3	209.6	188.4	401.6	3.1	3.5	145.8
	Mississippi	-	30	14	2.4	41.2	1.9	3.9	31.7	127.9	265.2	388.9	3.6	2.2	80.4
	Missouri	E1	49	14	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.6	81.0
	Nebraska	-	87	26	4.1	90.5	2.7	5.3	52.2	243.0	249.4	481.0	7.3	6.4	317.9
	New York	E1	31	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.4	73.8
	North Carolina	-	29	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	North Dakota	-	40	13	1.2	25.5	.8	1.6	12.9	106.6	94.0	192.9	(D)	2.0	90.3
	Ohio	-	65	27	3.4	73.7	2.7	5.5	52.3	180.1	296.5	464.9	6.4	3.0	118.8
	Pennsylvania	E1	44	8	1.9	53.4	1.5	3.1	39.8	191.0	126.8	298.0	2.4	FF	(D)
	South Carolina	-	7	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Tennessee	-	25	9	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.5	65.0
	Texas	E2	94	23	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.8	85.9
	Washington	E4	43	4	.5	9.7	.3	.6	5.2	25.9	21.2	46.9	(D)	.5	17.8
	Wisconsin	-	98	42	9.4	261.9	6.5	11.9	153.7	1 001.7	1 076.8	2 058.9	(D)	11.1	827.1
353	Construction and related machinery	E1	3 473	1 416	188.3	5 271.8	117.0	233.8	2 886.6	11 344.1	12 868.1	24 622.3	588.9	325.8	16 453.3
	Alabama	-	53	23	2.6	60.1	1.7	3.5	34.9	108.2	157.4	263.1	7.4	FF	(D)
	Arkansas	E1	33	16	1.8	38.3	1.3	2.5	23.1	84.4	75.6	159.7	4.0	1.5	57.6
	California	E3	306	87	7.8	200.3	4.9	9.9	115.3	391.3	450.5	917.7	13.7	22.4	1 438.1
	Colorado	E1	52	15	1.8	50.8	.9	2.0	21.9	95.0	82.3	179.5	6.2	3.6	149.7
	Connecticut	E3	29	8	.6	14.0	.4	.7	7.7	33.5	29.5	62.5	(D)	.7	28.1
	Florida	E3	110	40	2.8	66.5	1.8	3.6	34.3	147.1	142.6	281.4	5.9	2.6	96.9
	Georgia	E1	58	26	1.7	45.9	1.1	2.1	21.5	93.1	110.4	205.5	5.1	1.7	51.2
	Illinois	-	185	80	24.3	843.6	16.3	32.5	529.8	1 963.6	2 464.2	4 483.2	186.0	39.2	1 889.7
	Indiana	-	75	38	4.2	108.9	2.9	6.1	66.8	266.2	254.4	517.2	18.1	5.5	241.0
	Iowa	-	64	36	12.2	408.4	8.4	16.5	274.0	1 113.8	1 317.1	2 471.9	48.7	15.7	1 020.2

See footnotes at end of table.

Table 2. Industry Group Statistics by State: 1987 and 1982—Con.

[Includes industry groups with 450 manufacturing employees or more. Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes.]

1987 SIC code	Industry group and geographic area	1987											1982		
		All establishments ²		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materials ⁴ (million dollars)	Value of shipments ⁴ (million dollars)	New capital expendi- tures (million dollars)	All em- ployees ³ (1,000)	Value added by manu- facture (million dollars)	
		E ¹	Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							Wages (million dollars)
35	Industrial machinery and equipment— Con.														
353	Construction and related machinery— Con.														
	Kansas	E2	56	35	3.9	101.1	2.2	4.7	46.1	224.2	317.2	529.7	9.9	4.5	175.6
	Kentucky	E1	52	29	4.8	136.3	2.6	5.0	57.7	322.0	481.0	797.9	10.0	6.2	244.8
	Louisiana	E2	69	18	1.7	43.5	1.1	2.1	22.1	102.6	62.6	177.3	1.8	4.6	244.6
	Maine	-	9	4	.5	9.6	.3	.6	5.4	30.0	26.0	55.5	1.0	.5	19.1
	Massachusetts	E2	50	23	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.4	51.8
	Michigan	-	192	83	8.8	261.7	4.9	9.7	116.4	577.1	672.0	1 275.6	(D)	12.4	531.3
	Minnesota	-	102	49	4.6	115.5	2.8	5.4	54.9	224.7	337.0	565.1	(D)	6.6	259.7
	Mississippi	-	23	13	2.7	65.4	1.4	2.9	30.5	99.3	133.2	234.1	3.8	3.3	116.0
	Missouri	E1	58	25	2.4	59.3	1.5	2.9	30.6	135.7	153.8	284.2	6.3	3.1	114.1
	Nebraska	E1	14	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	27.5
	New Jersey	E1	81	24	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.3	179.2
	New York	E1	110	44	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6.3	201.4
	North Carolina	-	62	34	4.1	102.0	2.9	6.1	61.5	214.4	339.9	559.6	11.3	2.7	92.9
	North Dakota	-	12	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	30.8
	Ohio	E1	229	122	12.6	328.5	7.6	15.2	163.2	698.3	730.1	1 444.4	28.2	23.1	925.3
	Oklahoma	E1	137	40	6.8	177.8	4.3	8.2	102.9	311.1	334.4	668.2	13.6	15.2	652.6
	Oregon	-	55	19	2.5	68.2	1.6	3.3	39.3	147.9	169.9	308.5	5.9	2.9	105.6
	Pennsylvania	-	181	84	13.2	364.2	8.3	16.8	213.9	823.7	683.4	1 496.3	33.0	20.4	852.6
	South Carolina	E1	14	8	1.1	28.3	.7	1.3	14.7	43.7	56.3	99.9	8.2	2.8	72.8
	South Dakota	-	16	10	1.3	27.5	.9	2.0	16.8	75.0	88.4	158.8	5.4	.9	30.2
	Tennessee	E3	43	21	2.2	55.5	1.5	3.1	32.6	115.9	122.7	247.4	(D)	FF	(D)
	Texas	E1	495	171	23.3	651.9	13.1	25.7	313.3	1 056.6	1 225.7	2 533.3	36.4	73.3	4 823.8
	Utah	E1	24	12	1.2	33.6	.7	1.3	13.4	94.1	59.3	145.1	2.0	2.1	118.0
	Virginia	E1	63	31	4.0	97.8	2.6	5.3	50.8	225.6	235.1	460.4	8.4	5.1	171.4
	Washington	E1	73	26	2.8	74.5	1.7	3.5	38.6	143.8	153.0	296.6	4.0	3.6	153.3
	West Virginia	E2	64	19	1.6	38.0	1.0	1.9	18.8	88.0	64.0	137.6	3.8	2.6	78.9
	Wisconsin	-	111	70	9.9	283.0	6.3	12.1	159.5	619.6	691.8	1 317.9	32.5	13.7	805.8
354	Metalworking machinery	E1	11 446	2 898	267.7	7 300.8	188.9	389.6	4 648.3	13 734.4	8 212.4	22 003.5	719.0	(NA)	(NA)
	Alabama	E1	78	27	1.8	38.3	1.4	3.0	27.8	76.0	38.1	115.3	(D)	(NA)	(NA)
	Arizona	E1	88	20	1.8	37.4	1.2	2.5	25.9	60.5	70.4	141.9	1.5	(NA)	(NA)
	Arkansas	-	81	14	2.8	51.4	2.3	4.2	36.0	149.7	170.0	318.8	8.3	(NA)	(NA)
	California	E2	1 062	174	13.9	361.9	10.2	20.5	233.6	679.6	393.7	1 072.2	31.6	(NA)	(NA)
	Colorado	E1	74	10	1.1	30.5	.8	1.7	19.5	52.6	47.4	96.4	2.4	(NA)	(NA)
	Connecticut	E1	438	90	8.3	230.2	5.7	11.9	141.3	392.2	224.3	630.6	14.5	(NA)	(NA)
	Florida	E3	237	34	3.0	62.2	2.3	4.6	42.7	112.4	49.0	160.6	5.8	(NA)	(NA)
	Georgia	E1	97	22	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Illinois	E1	1 055	264	24.5	699.3	17.0	34.7	439.9	1 185.7	692.1	1 910.3	55.2	(NA)	(NA)
	Indiana	E1	518	155	10.5	274.2	7.9	16.6	187.7	461.1	225.7	692.3	25.4	(NA)	(NA)
	Iowa	-	79	25	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Kansas	E1	61	15	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Kentucky	E1	88	22	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Maine	E2	17	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Maryland	-	36	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Massachusetts	E1	391	98	9.6	246.8	6.5	13.7	153.2	431.6	217.8	646.4	21.8	(NA)	(NA)
	Michigan	E1	2 034	671	50.4	1 602.6	36.1	78.2	1 040.2	2 792.8	1 663.9	4 511.4	177.0	(NA)	(NA)
	Minnesota	E1	221	50	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Mississippi	-	39	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Missouri	E2	203	45	3.9	94.2	2.8	5.4	63.8	167.5	100.6	267.6	7.9	(NA)	(NA)
	New Hampshire	E1	67	15	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	New Jersey	E2	430	93	6.9	178.8	5.0	10.3	121.2	331.9	173.5	508.2	13.4	(NA)	(NA)
	New York	E1	612	135	14.2	378.6	9.5	19.0	221.4	680.1	397.6	1 109.9	42.9	(NA)	(NA)
	North Carolina	-	151	36	6.4	133.6	4.7	9.0	81.7	566.3	354.0	909.2	(D)	(NA)	(NA)
	Ohio	-	1 202	356	39.7	1 132.4	27.3	56.2	705.7	2 137.6	1 316.3	3 432.8	101.2	(NA)	(NA)
	Oklahoma	E1	47	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Oregon	E1	89	11	1.0	24.9	.7	1.5	15.8	52.7	24.2	74.8	3.1	(NA)	(NA)
	Pennsylvania	-	617	177	16.6	442.9	11.7	24.0	284.2	885.6	490.3	1 315.3	52.5	(NA)	(NA)
	Rhode Island	-	96	18	2.9	75.8	1.8	3.8	43.5	130.4	82.7	209.4	9.5	(NA)	(NA)
	South Carolina	-	93	37	5.5	120.3	3.9	8.1	72.5	292.5	235.2	527.0	11.6	(NA)	(NA)
	South Dakota	-	9	6	.5	11.5	.3	.6	5.8	24.3	14.3	39.3	.7	(NA)	(NA)
	Tennessee	-	160	37	4.1	93.7	2.9	5.8	58.6	201.1	98.7	290.6	(D)	(NA)	(NA)
	Texas	E1	251	47	4.2	96.7	3.0	6.0	64.5	197.8	98.1	302.1	(D)	(NA)	(NA)
	Vermont	-	23	9	1.7	39.1	1.2	2.4	24.6	72.5	30.8	112.0	1.7	(NA)	(NA)
	Virginia	-	49	15	1.5	35.9	1.0	2.1	21.4	92.8	150.9	241.4	3.8	(NA)	(NA)
	Washington	E2	73	8	.6	14.3	.4	.9	10.0	23.0	11.2	33.5	1.5	(NA)	(NA)
	Wisconsin	-	466	117	13.0	370.3	8.9	18.2	233.1	692.8	350.4	1 056.6	42.6	(NA)	(NA)
355	Special industry machinery	E1	4 557	1 626	169.1	4 587.9	96.3	194.1	2 183.2	9 654.5	7 580.1	17 096.1	474.8	(NA)	(NA)
	Alabama	E1	37	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Arizona	E2	37	16	1.0	26.8	.6	1.3	13.1	47.2	33.2	78.3	2.7	(NA)	(NA)
	Arkansas	E1	17	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	California	E1	518	180	15.6	456.0	8.3	16.7	193.7	951.6	664.8	1 601.6	49.0	(NA)	(NA)
	Colorado	E2	35	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Connecticut	-	109	41	6.2	182.6	3.1	6.2	80.4	398.1	364.2	741.4	26.2	(NA)	(NA)
	Florida	E2	109	34	2.5	62.6	1.4	3.0	27.8	111.1	96.0	211.6	6.4	(NA)	(NA)
	Georgia	E1	140	50	4.4	105.2	2.7	5.4	53.0	245.1	164.4	411.1	6.3	(NA)	(NA)
	Illinois	E1	273	96	9.2	253.3	5.7	10.8	134.5	573.6	411.2	982.4	(D)	(NA)	(NA)
	Indiana	E1	113	43	4.3	117.4	2.6	5.6	62.4	228.8	166.4	393.2	9.2	(NA)	(NA)

See footnotes at end of table.

Table 2. Industry Group Statistics by State: 1987 and 1982—Con.

[Includes industry groups with 450 manufacturing employees or more. Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes.]

1987 SIC code	Industry group and geographic area	1987											1982		
		All establishments ²			All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materials ⁴ (million dollars)	Value of shipments ⁴ (million dollars)	New capital expend- itures (million dollars)	All em- ployees ³ (1,000)	Value added by manu- facture (million dollars)
		E ¹	Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
35	Industrial machinery and equipment— Con.														
355	Special Industry machinery—Con.														
	Iowa	-	49	27	3.0	89.9	2.0	3.9	53.1	174.9	198.5	371.6	11.4	(NA)	(NA)
	Kansas	-	50	26	2.1	55.9	1.2	2.6	26.6	123.9	105.2	236.9	3.2	(NA)	(NA)
	Kentucky	E2	44	14	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Louisiana	E4	24	10	.8	15.1	.5	.9	8.2	20.1	20.2	41.3	1.4	(NA)	(NA)
	Maine	E1	27	4	.5	12.3	.3	.7	6.5	16.8	20.6	36.0	(D)	(NA)	(NA)
	Maryland	E1	32	13	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Massachusetts	-	209	90	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Michigan	E1	228	78	7.0	200.6	4.3	9.2	108.4	368.6	363.9	740.5	(D)	(NA)	(NA)
	Minnesota	-	82	28	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Mississippi	-	21	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Missouri	E1	74	24	2.1	54.2	1.2	2.3	24.3	123.3	80.4	200.2	6.4	(NA)	(NA)
	New Hampshire	-	43	18	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	New Jersey	E1	258	86	9.6	272.8	4.8	9.6	115.0	527.3	426.2	952.0	18.5	(NA)	(NA)
	New York	E1	314	99	11.2	314.3	6.2	12.7	149.4	648.4	486.3	1 151.9	27.1	(NA)	(NA)
	North Carolina	-	215	78	7.3	160.3	4.9	10.0	90.9	353.0	283.3	623.2	18.6	(NA)	(NA)
	Ohio	-	309	129	14.8	415.2	8.4	16.7	206.3	974.5	796.2	1 749.6	33.1	(NA)	(NA)
	Oklahoma	-	44	10	1.4	35.9	.7	1.4	13.8	81.8	75.5	154.9	1.8	(NA)	(NA)
	Oregon	E1	99	28	2.2	56.0	1.4	2.7	29.7	114.4	88.1	200.1	2.9	(NA)	(NA)
	Pennsylvania	E1	237	89	9.5	249.2	5.7	11.3	121.8	477.0	429.9	894.8	24.9	(NA)	(NA)
	Rhode Island	E3	46	10	.7	17.2	.4	.9	8.6	30.0	22.2	52.3	1.2	(NA)	(NA)
	South Carolina	E1	106	45	5.6	121.4	3.9	8.2	73.0	235.4	192.8	421.2	11.3	(NA)	(NA)
	Tennessee	-	73	27	2.6	64.8	1.7	3.7	35.9	137.7	147.9	282.8	(D)	(NA)	(NA)
	Texas	E1	192	43	3.5	94.8	2.1	4.2	44.3	184.7	141.9	313.9	24.1	(NA)	(NA)
	Virginia	E1	51	23	1.9	48.8	1.2	2.4	27.4	109.4	83.7	188.3	5.3	(NA)	(NA)
	Washington	-	76	21	2.5	67.7	1.6	3.2	38.6	153.9	122.6	270.1	5.1	(NA)	(NA)
	Wisconsin	-	163	81	10.5	294.9	5.7	11.2	131.4	603.9	448.7	1 043.0	34.3	(NA)	(NA)
356	General Industrial machinery	-	3 952	1 905	240.4	6 203.4	151.0	302.0	3 416.2	13 782.7	10 310.0	24 120.5	680.4	(NA)	(NA)
	Alabama	-	38	17	1.9	40.0	1.2	2.5	25.9	81.5	73.4	152.4	4.0	(NA)	(NA)
	Arizona	E1	21	9	.5	10.2	.3	.5	4.0	18.1	25.3	43.6	.8	(NA)	(NA)
	Arkansas	-	25	12	1.6	28.2	1.1	2.4	19.1	72.7	78.7	150.7	8.6	(NA)	(NA)
	California	E1	455	194	17.3	459.7	10.1	20.0	219.9	890.7	711.9	1 598.2	34.9	(NA)	(NA)
	Colorado	-	33	10	1.2	31.2	.7	1.3	15.2	73.6	40.5	118.0	(D)	(NA)	(NA)
	Connecticut	E1	116	46	8.9	245.9	6.3	13.0	155.6	464.3	262.7	725.0	30.3	(NA)	(NA)
	Florida	E2	125	53	3.9	88.7	2.4	4.8	45.0	191.0	131.7	320.2	13.0	(NA)	(NA)
	Georgia	-	77	36	5.0	106.9	3.7	7.6	68.5	274.2	187.0	452.9	17.7	(NA)	(NA)
	Illinois	-	304	166	21.8	595.3	13.6	27.8	327.2	1 286.7	899.5	2 204.7	50.0	(NA)	(NA)
	Indiana	-	116	66	9.8	259.3	6.6	13.4	158.9	570.6	440.2	1 017.6	25.1	(NA)	(NA)
	Iowa	-	34	21	2.2	51.2	1.4	2.6	31.4	111.8	78.5	192.7	(D)	(NA)	(NA)
	Kansas	-	41	18	2.1	52.5	1.2	2.4	26.0	122.8	97.3	219.3	6.0	(NA)	(NA)
	Kentucky	-	48	30	4.9	116.3	3.4	6.7	77.1	338.6	267.6	603.2	(D)	(NA)	(NA)
	Louisiana	E3	38	14	.8	20.2	.4	.8	9.1	44.6	30.1	74.3	.9	(NA)	(NA)
	Maryland	-	38	19	2.6	73.1	1.5	3.2	40.6	197.7	144.4	346.9	(D)	(NA)	(NA)
	Massachusetts	E1	137	68	8.8	232.9	4.8	8.9	104.0	430.1	349.3	783.7	16.1	(NA)	(NA)
	Michigan	E1	243	119	12.4	344.3	7.6	15.2	176.2	732.3	645.3	1 368.2	42.8	(NA)	(NA)
	Minnesota	-	94	51	6.2	163.1	3.6	7.0	79.8	414.4	268.8	685.2	(D)	(NA)	(NA)
	Missouri	-	66	37	3.9	85.1	2.7	5.5	51.2	215.1	137.4	357.0	12.5	(NA)	(NA)
	Nebraska	-	19	8	.8	17.2	.6	1.2	10.6	39.8	48.3	90.5	2.0	(NA)	(NA)
	New Hampshire	-	35	19	4.7	117.1	3.6	7.3	76.3	225.2	109.8	334.2	12.7	(NA)	(NA)
	New Jersey	E1	212	95	10.0	255.6	5.9	11.2	126.3	493.2	433.2	962.8	21.4	(NA)	(NA)
	New York	-	238	119	18.0	475.8	10.2	20.1	245.6	1 027.6	736.8	1 708.9	41.2	(NA)	(NA)
	North Carolina	-	107	62	7.1	162.3	4.8	9.7	92.2	391.7	379.1	784.3	23.2	(NA)	(NA)
	Ohio	-	279	140	24.0	665.5	15.3	30.6	394.3	1 604.0	1 214.5	2 832.4	80.7	(NA)	(NA)
	Oklahoma	-	76	37	4.9	134.6	2.6	5.2	62.2	255.5	229.1	486.4	10.8	(NA)	(NA)
	Oregon	-	37	11	1.3	35.5	.8	1.5	20.3	68.3	47.1	115.8	2.8	(NA)	(NA)
	Pennsylvania	-	233	127	16.9	453.4	10.3	20.0	241.9	1 000.9	652.4	1 641.3	62.3	(NA)	(NA)
	South Carolina	-	43	28	7.1	140.7	5.2	10.5	98.2	406.3	339.0	756.7	31.4	(NA)	(NA)
	South Dakota	-	8	5	.6	12.4	.4	.9	7.5	40.7	21.8	60.4	.8	(NA)	(NA)
	Tennessee	-	58	31	4.1	88.7	3.1	6.5	59.9	214.9	156.6	367.1	9.7	(NA)	(NA)
	Texas	E2	239	101	8.4	204.2	5.3	10.5	105.9	427.3	385.0	820.3	26.0	(NA)	(NA)
	Utah	-	12	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Virginia	E1	33	18	1.8	40.6	1.2	2.5	25.4	89.8	75.8	164.6	(D)	(NA)	(NA)
	Washington	E1	38	10	1.3	33.0	.7	1.5	16.8	88.3	41.6	130.9	5.2	(NA)	(NA)
	Wisconsin	-	141	74	10.3	273.9	6.5	12.9	157.0	686.2	430.2	1 114.6	31.6	(NA)	(NA)
357	Computer and office equipment	-	2 052	939	327.7	10 668.3	120.9	244.8	2 571.4	32 386.8	28 334.0	60 626.5	2 184.7	(NA)	(NA)
	Alabama	-	15	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Arizona	-	43	17	9.7	355.8	2.3	4.7	52.2	997.8	952.0	1 937.5	(D)	(NA)	(NA)
	Arkansas	-	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	California	-	652	323	92.5	3 284.3	29.5	58.1	691.8	9 427.1	6 977.6	16 293.3	767.1	(NA)	(NA)
	Colorado	-	45	19	14.6	377.8	4.2	9.3	78.4	826.0	922.1	1 715.0	89.6	(NA)	(NA)
	Connecticut	E1	43	26	8.5	293.4	3.9	7.5	76.0	645.6	358.6	985.4	47.1	(NA)	(NA)
	Florida	-	61	29	13.3	504.6	3.0	6.2	62.6	1 319.6	2 877.2	4 226.6	41.0	(NA)	(NA)
	Georgia	E3	32	13	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Idaho	-	6	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Illinois	-	69	36	7.0	165.5	2.6	5.4	53.5	594.4	312.8	905.9	(D)	(NA)	(NA)
	Iowa	-	7	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Kansas	-	14	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Kentucky	-	6	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Maine	-	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Maryland	E1	25	13	1.3	30.9	.5	1.6	9.6	81.3	46.7	127.2	(D)	(NA)	(NA)

See footnotes at end of table.

Table 2. Industry Group Statistics by State: 1987 and 1982—Con.

[Includes industry groups with 450 manufacturing employees or more. Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes.]

1987 SIC code	Industry group and geographic area	1987											1982	
		All establishments ²		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materials ⁴ (million dollars)	Value of shipments ⁴ (million dollars)	New capital expend- itures (million dollars)	All em- ployees ³ (1,000)	Value added by manu- facture (million dollars)
		E1 Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
35	Industrial machinery and equipment— Con.													
357	Computer and office equipment—Con.													
	Massachusetts	—	146	83	29.7	882.2	13.3	26.0	238.2	4 050.9	2 461.7	6 563.1	182.1	(NA)
	Michigan	—	45	21	4.0	102.0	2.1	4.0	39.2	1 216.7	812.8	1 005.5	(D)	(NA)
	Minnesota	—	74	51	30.6	1 086.9	12.0	29.8	293.8	3 264.8	1 718.0	5 067.3	196.9	(NA)
	Missouri	E1	20	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
	Nevada	—	9	5	.7	18.4	.3	.6	5.8	30.0	62.8	101.5	3.1	(NA)
	New Hampshire	—	39	19	5.1	141.0	2.3	4.0	41.9	2 440.4	485.9	2 937.8	20.0	(NA)
	New Jersey	E2	73	27	5.3	143.7	2.2	4.5	45.2	299.9	320.9	629.6	20.4	(NA)
	New Mexico	—	4	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
	New York	—	107	42	22.0	736.7	8.6	17.3	183.3	1 442.1	2 425.4	3 857.1	181.2	(NA)
	North Carolina	—	39	11	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
	Ohio	—	46	19	4.0	101.3	2.0	3.8	33.8	268.2	257.0	526.0	14.2	(NA)
	Oklahoma	—	15	7	3.0	79.5	2.1	3.7	41.5	96.6	305.0	381.8	35.2	(NA)
	Oregon	—	34	13	5.0	155.8	2.0	4.0	41.7	361.7	234.4	592.6	28.7	(NA)
	Pennsylvania	—	59	26	7.0	190.7	2.2	4.2	43.9	511.0	565.8	1 058.5	31.9	(NA)
	South Carolina	—	8	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
	South Dakota	—	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
	Tennessee	—	12	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
	Texas	—	117	47	15.2	464.3	5.7	11.0	106.6	1 312.7	1 405.8	2 667.2	88.5	(NA)
	Utah	—	31	8	2.7	81.8	1.1	2.2	24.1	167.8	98.4	274.4	(D)	(NA)
	Vermont	—	6	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
	Virginia	—	29	8	2.1	64.8	1.2	2.2	27.3	150.2	192.3	320.3	10.5	(NA)
	Washington	—	53	19	5.5	144.0	2.6	4.7	39.0	350.3	181.2	522.3	20.6	(NA)
	Wisconsin	—	17	7	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
358	Refrigeration and service machinery	—	2 105	963	190.4	4 752.1	132.8	266.2	2 877.1	11 459.9	11 959.7	23 234.9	578.9	171.7
	Alabama	—	21	13	2.7	57.1	2.1	4.4	39.6	177.9	201.5	370.7	8.9	FF
	Arizona	E1	40	16	2.0	36.6	1.4	2.6	20.2	86.4	68.8	148.3	5.6	2.0
	Arkansas	—	25	14	4.2	101.5	3.3	6.9	69.4	289.4	289.2	588.5	16.1	2.8
	California	E2	314	108	11.7	274.9	8.0	16.4	160.7	583.6	669.7	1 250.7	23.2	8.9
	Colorado	—	20	6	.6	16.3	.4	.8	7.0	45.6	38.2	81.9	1.3	.7
	Connecticut	E1	30	12	1.7	46.1	1.0	2.2	23.2	86.3	76.3	165.9	(D)	1.5
	Florida	E2	115	39	3.4	69.0	2.4	5.0	38.6	196.0	155.8	346.9	4.7	2.2
	Georgia	—	38	23	3.9	93.5	3.0	6.7	66.1	236.4	260.3	493.9	7.2	2.9
	Illinois	—	149	76	12.0	294.7	8.0	16.1	157.6	745.5	749.5	1 490.5	(D)	11.1
	Indiana	—	62	29	8.3	237.2	6.0	12.3	158.8	514.2	666.6	1 205.7	67.2	5.9
	Iowa	—	21	15	3.0	75.1	2.0	3.8	45.0	204.8	187.2	384.6	(D)	2.2
	Kansas	—	15	8	2.7	59.9	2.0	3.4	39.2	171.8	185.3	349.1	(D)	2.4
	Kentucky	—	19	14	5.7	121.0	4.4	8.6	81.9	389.8	404.4	789.0	10.3	7.4
	Louisiana	—	17	4	1.1	28.4	.7	1.7	17.4	69.2	65.2	135.7	3.7	CC
	Maryland	—	19	11	2.9	69.3	2.1	4.5	40.0	161.0	136.1	290.0	7.8	2.3
	Massachusetts	E1	38	19	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.4
	Michigan	—	90	39	7.8	183.8	5.3	10.7	108.9	420.7	532.4	910.9	22.8	7.7
	Minnesota	—	62	30	6.0	190.2	3.3	6.4	76.6	448.8	334.4	781.3	(D)	6.6
	Mississippi	—	14	7	2.6	52.9	2.1	4.5	38.8	124.1	151.7	275.2	(D)	1.9
	Missouri	—	64	34	7.7	172.7	5.4	10.7	102.4	343.5	351.2	685.1	28.6	6.4
	New Jersey	—	80	36	7.3	185.0	5.1	9.8	116.1	310.0	391.9	687.7	18.5	6.6
	New York	—	129	54	15.5	462.3	11.7	23.5	328.9	1 047.8	1 039.1	2 077.9	42.6	14.7
	North Carolina	—	41	23	4.1	104.6	2.8	6.0	58.2	246.3	220.1	465.6	(D)	4.0
	Ohio	—	99	49	15.7	493.7	11.1	23.4	330.1	1 178.1	1 038.1	2 204.0	45.7	16.5
	Oklahoma	—	24	8	1.6	34.6	1.1	2.0	20.7	88.5	98.7	186.2	2.3	1.3
	Oregon	E3	26	8	.7	15.5	.5	.9	8.5	32.7	35.7	68.1	.8	.7
	Pennsylvania	—	98	55	9.5	242.7	5.5	10.8	120.2	508.3	468.8	977.2	21.7	10.2
	South Carolina	—	15	7	1.5	30.4	1.2	2.4	19.3	86.1	95.4	179.9	3.1	1.1
	Tennessee	—	56	38	13.1	275.9	10.5	20.3	192.5	973.3	1 064.7	1 974.3	66.0	8.7
	Texas	—	174	83	15.0	335.9	10.1	19.3	187.6	786.0	1 116.3	1 902.9	44.1	11.8
	Virginia	—	20	13	2.9	58.4	1.9	3.8	30.0	144.1	188.9	324.0	9.0	2.7
	Washington	E1	27	10	.8	22.4	.5	1.1	12.3	44.8	44.3	91.1	1.6	.6
	West Virginia	—	7	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC
	Wisconsin	—	71	36	7.5	188.9	4.1	8.3	89.6	397.3	373.7	773.8	15.6	8.5
359	Industrial machinery, n.e.c.	E2	22 348	3 365	291.9	6 946.2	220.9	456.1	4 607.2	13 160.2	6 733.1	19 921.4	795.9	(NA)
	Alabama	E2	291	51	4.0	77.7	3.1	6.2	54.7	161.0	120.8	279.7	12.7	(NA)
	Arizona	E2	322	57	3.7	90.6	2.9	6.2	62.9	162.0	55.5	215.9	10.2	(NA)
	Arkansas	E4	140	11	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
	California	E2	3 847	469	45.2	1 166.4	32.7	66.0	723.6	2 299.2	971.9	3 266.2	119.9	(NA)
	Colorado	E2	300	33	3.1	66.7	2.4	5.1	45.9	124.3	68.7	190.6	8.8	(NA)
	Connecticut	E2	607	92	6.9	172.7	5.2	11.0	113.0	306.1	130.5	425.5	20.3	(NA)
	Florida	E2	557	72	5.5	116.2	4.2	8.6	79.7	241.9	118.0	369.9	11.9	(NA)
	Georgia	E3	345	45	4.0	81.4	3.1	6.4	56.3	153.1	70.8	223.6	6.6	(NA)
	Illinois	E2	1 215	244	18.7	441.4	14.1	29.4	287.1	840.3	429.1	1 272.4	61.1	(NA)
	Indiana	E1	537	106	9.5	232.5	7.2	15.3	153.3	416.3	195.5	618.1	25.3	(NA)
	Iowa	—	163	29	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
	Kansas	E1	224	30	4.0	91.5	2.9	5.8	60.8	167.3	86.5	255.4	10.0	(NA)
	Kentucky	E1	210	31	4.6	96.8	3.7	7.0	70.7	205.2	108.3	314.8	6.1	(NA)
	Louisiana	E2	270	33	2.5	55.9	1.9	3.9	38.9	103.8	43.5	146.6	4.2	(NA)
	Maine	E1	77	14	1.2	29.1	.9	2.0	20.6	54.1	27.1	78.8	3.4	(NA)
	Maryland	E3	205	42	2.8	64.5	2.1	4.5	43.2	126.5	46.6	171.9	10.4	(NA)
	Massachusetts	E2	734	126	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
	Michigan	E1	1 280	237	23.0	637.7	17.6	37.5	441.2	1 137.3	1 019.2	2 156.5	80.6	(NA)
	Minnesota	E2	473	98	7.3	177.4	5.6	11.5	119.4	366.9	176.3	534.8	26.1	(NA)
	Mississippi	—	137	15	2.9	70.4	2.0	4.2	39.9	158.0	99.2	260.5	9.5	(NA)

See footnotes at end of table.

Table 2. Industry Group Statistics by State: 1987 and 1982—Con.

[Includes industry groups with 450 manufacturing employees or more. Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry group and geographic area	1987											1982	
		All establishments ²		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materials ⁴ (million dollars)	Value of shipments ⁴ (million dollars)	New capital expend- itures (million dollars)	All em- ployees ³ (1,000)	Value added by manu- facture (million dollars)
		E ¹	Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
35	Industrial machinery and equipment— Con.													
359	Industrial machinery, n.e.c.—Con.													
	Missouri	E1	377	51	5.3	116.9	4.1	8.8	81.6	207.6	110.9	322.3	13.8	(NA)
	Nebraska	-	99	16	2.4	67.9	1.9	4.4	50.5	139.6	73.5	206.5	11.8	(NA)
	Nevada	E1	44	6	.7	13.9	.6	1.2	10.2	27.8	15.7	42.7	.9	(NA)
	New Hampshire	E3	178	24	1.6	34.3	1.3	2.6	62.7	23.6	86.4	(D)	(NA)	(NA)
	New Jersey	E2	763	86	7.8	196.7	5.8	12.0	121.5	367.0	156.8	522.1	15.7	(NA)
	New Mexico	E4	93	13	1.0	18.3	.8	1.5	12.8	34.2	14.6	48.7	1.9	(NA)
	New York	E1	1 066	173	14.9	393.6	11.4	23.7	258.4	753.4	362.1	1 120.4	43.6	(NA)
	North Carolina	E3	498	58	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
	Ohio	E1	1 530	272	23.3	538.7	17.7	36.2	359.8	971.8	533.7	1 561.8	61.8	(NA)
	Oklahoma	E2	302	23	2.6	53.9	2.1	4.1	37.8	114.3	50.6	165.3	4.1	(NA)
	Oregon	E2	305	37	2.6	55.5	1.9	3.9	37.0	109.4	45.1	153.3	5.1	(NA)
	Pennsylvania	E2	1 127	214	15.9	343.0	12.3	25.0	237.1	652.1	267.7	913.3	33.1	(NA)
	Rhode Island	E3	107	14	1.1	22.5	.8	1.6	15.0	39.6	14.7	54.1	1.4	(NA)
	South Carolina	E2	232	26	2.6	55.3	1.9	4.1	36.6	104.2	58.2	162.6	5.4	(NA)
	Tennessee	E1	308	53	4.9	110.6	3.8	7.8	77.4	209.4	133.8	344.8	15.6	(NA)
	Texas	E3	1 485	159	13.1	285.1	10.1	20.7	195.0	523.8	237.4	762.7	20.0	(NA)
	Utah	E4	136	19	1.3	26.8	1.0	2.1	18.8	47.0	24.6	71.0	1.6	(NA)
	Vermont	E1	43	8	.7	16.7	.5	1.0	9.6	34.6	14.3	48.7	(D)	(NA)
	Virginia	E2	308	57	3.8	84.5	3.0	6.4	55.9	147.4	58.6	204.9	10.1	(NA)
	Washington	E2	424	56	4.4	104.9	3.3	6.7	67.6	205.3	89.1	292.6	15.9	(NA)
	West Virginia	E2	115	15	1.4	30.3	1.1	2.2	20.7	57.7	32.4	87.1	2.1	(NA)
	Wisconsin	E1	598	125	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
36	Electronic and other electric equipment	-	15 922	7 544	1 564.7	38 738.2	999.6	1 959.3	19 716.8	95 815.3	76 195.1	171 286.4	6 875.1	(NA)
	Alabama	-	149	65	18.3	342.9	14.4	28.3	231.6	1 048.3	1 059.4	2 086.7	54.1	(NA)
	Arizona	-	249	107	32.8	808.1	16.7	35.3	289.2	2 007.3	886.1	2 896.4	239.8	(NA)
	Arkansas	-	111	67	20.6	401.7	17.1	32.2	300.6	1 211.0	1 276.9	2 449.5	58.6	(NA)
	California	E1	3 493	1 575	259.8	7 110.8	142.3	286.3	2 860.7	16 450.8	10 154.6	26 541.2	1 430.3	(NA)
	Colorado	-	213	81	13.8	369.2	8.2	15.9	180.0	1 145.6	865.0	2 014.0	75.5	(NA)
	Connecticut	E1	449	229	33.2	740.6	21.7	42.2	379.7	1 664.9	1 129.6	2 805.6	94.7	(NA)
	Delaware	-	21	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
	Florida	E1	621	255	58.9	1 488.9	29.1	57.6	506.0	3 462.8	1 906.5	5 393.5	215.6	(NA)
	Georgia	-	232	119	28.9	640.5	19.9	39.3	374.0	2 380.8	2 205.4	4 568.3	140.9	(NA)
	Idaho	-	29	15	4.2	88.9	2.7	4.9	41.5	231.4	87.9	317.6	(D)	(NA)
	Illinois	-	950	489	98.2	2 336.1	62.7	123.5	1 184.4	5 514.5	4 538.4	10 090.3	340.8	(NA)
	Indiana	-	354	219	72.3	1 938.3	56.1	109.4	1 368.1	3 852.4	4 301.6	8 119.0	307.4	(NA)
	Iowa	-	91	50	16.6	401.4	11.1	22.5	244.1	1 250.3	1 020.6	2 256.3	73.5	(NA)
	Kansas	-	125	45	7.2	140.0	5.4	11.0	94.9	448.4	303.0	750.6	22.2	(NA)
	Kentucky	-	119	72	25.3	655.6	20.8	39.6	497.8	1 729.6	1 813.1	3 522.2	90.2	(NA)
	Louisiana	-	66	24	7.5	228.6	5.8	10.6	169.8	812.9	581.6	1 409.2	40.6	(NA)
	Maine	E1	54	30	9.0	194.3	6.2	11.5	101.5	573.3	372.1	940.0	44.1	(NA)
	Maryland	E1	189	92	17.1	430.0	9.3	18.2	172.6	934.6	716.6	1 717.9	40.4	(NA)
	Massachusetts	-	741	383	79.3	2 025.0	48.8	97.3	1 003.9	5 005.0	3 130.0	8 055.7	382.8	(NA)
	Michigan	-	446	186	26.0	612.6	19.4	39.0	411.5	1 320.2	1 417.3	2 732.6	61.3	(NA)
	Minnesota	-	309	168	27.0	625.8	18.2	34.7	339.8	1 477.5	1 110.4	2 562.1	88.1	(NA)
	Mississippi	-	81	62	20.2	359.7	16.3	32.8	256.4	934.5	1 008.8	1 962.6	45.4	(NA)
	Missouri	-	214	112	31.2	683.3	22.9	44.0	416.8	1 736.0	1 632.0	3 381.8	83.0	(NA)
	Nebraska	-	58	27	8.8	223.7	6.4	11.9	148.9	606.9	249.4	860.3	35.8	(NA)
	Nevada	E1	37	12	1.6	31.9	1.1	2.2	17.9	73.5	75.0	147.9	(D)	(NA)
	New Hampshire	E1	171	85	13.2	278.1	9.0	18.3	154.6	625.1	393.6	1 017.5	37.2	(NA)
	New Jersey	E1	764	374	51.1	1 199.4	34.9	67.8	673.1	2 779.1	2 180.2	4 836.4	140.7	(NA)
	New Mexico	-	51	17	4.4	102.7	2.8	6.3	55.0	250.6	106.4	456.9	52.7	(NA)
	New York	-	1 225	559	114.9	2 991.5	64.3	126.3	1 213.5	6 395.9	5 197.0	11 567.2	524.1	(NA)
	North Carolina	-	316	181	59.9	1 382.3	39.0	73.2	734.9	4 090.9	4 448.6	8 428.2	186.7	(NA)
	North Dakota	-	10	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
	Ohio	-	618	316	77.1	1 983.2	53.7	104.4	1 244.5	5 358.7	4 198.9	9 543.7	330.8	(NA)
	Oklahoma	-	120	45	11.7	302.9	8.5	15.7	197.8	1 151.8	1 407.2	2 541.2	42.4	(NA)
	Oregon	E1	209	77	9.2	226.5	5.5	10.4	96.9	735.2	410.6	1 126.8	91.9	(NA)
	Pennsylvania	-	765	391	74.2	1 794.6	51.6	100.7	1 047.5	4 332.2	3 468.0	7 751.0	263.7	(NA)
	Rhode Island	E1	76	42	7.0	129.2	4.8	9.7	75.0	306.2	229.1	532.8	19.5	(NA)
	South Carolina	-	117	72	20.6	403.3	15.7	31.2	254.7	1 276.9	899.6	2 168.5	110.8	(NA)
	South Dakota	-	25	12	2.9	48.3	2.2	4.5	28.7	152.7	178.0	325.4	(D)	(NA)
	Tennessee	-	236	114	31.5	621.5	25.1	47.7	433.3	1 722.3	2 640.3	4 344.3	118.6	(NA)
	Texas	E1	814	338	75.7	2 081.0	39.9	79.1	775.5	5 198.5	4 290.2	9 278.3	466.6	(NA)
	Utah	E1	102	36	6.8	152.1	4.5	8.7	71.4	283.9	174.5	480.5	31.9	(NA)
	Vermont	-	39	16	10.2	341.8	4.4	6.7	76.0	690.4	438.7	1 146.9	(D)	(NA)
	Virginia	-	209	104	25.4	600.6	16.4	31.6	313.2	1 698.0	1 060.9	2 693.4	88.5	(NA)
	Washington	E1	267	87	9.9	241.3	5.8	11.3	102.4	483.0	397.2	892.8	32.8	(NA)
	West Virginia	-	28	15	2.5	62.4	1.9	3.7	45.0	114.8	120.8	237.2	(D)	(NA)
	Wisconsin	-	312	159	36.3	868.5	25.4	48.6	501.8	2 131.1	1 903.3	4 061.7	108.1	(NA)
361	Electric distribution equipment	-	760	410	77.0	1 790.8	54.1	104.9	1 076.3	4 504.1	3 625.4	8 196.8	186.5	(NA)
	Alabama	-	13	6	.9	14.0	.7	1.6	9.8	31.7	34.9	65.0	.7	(NA)
	Arkansas	-	7	5	1.5	27.1	1.2	2.3	18.7	74.2	77.2	151.4	1.5	(NA)
	California	E1	93	52	4.9	110.6	3.1	6.5	65.1	254.9	232.0	494.0	13.5	(NA)
	Connecticut	E1	17	9	1.9	47.6	1.4	2.8	30.2	93.3	127.4	255.0	10.1	(NA)
	Florida	E1	27	10	1.3	25.4	1.0	2.0	16.3	67.5	61.9	130.0	1.8	(NA)
	Georgia	-	22	14	3.3	86.5	2.3	4.2	50.8	194.7	222.8	421.9	6.8	(NA)
	Illinois	-	70	37	7.3	188.0	4.6	9.4	100.0	360.8	237.4	604.7	29.4	(NA)
	Indiana	-	11	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
	Iowa	-	10	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
	Kentucky	-	14	13	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)

See footnotes at end of table.

Table 2. Industry Group Statistics by State: 1987 and 1982—Con.

[Includes industry groups with 450 manufacturing employees or more. Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes.]

1987 SIC code	Industry group and geographic area	1987											1982	
		All establishments ²		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materials ⁴ (million dollars)	Value of shipments ⁴ (million dollars)	New capital expend- itures (million dollars)	All em- ployees ³ (1,000)	Value added by manu- facture (million dollars)
		Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
36	Electronic and other electric equipment —Con.													
361	Electric distribution equipment—Con.													
	Louisiana	-	9	5	CC (D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Maryland	-	13	8	2.3	38.6	1.7	3.0	23.9	89.7	37.5	126.6	(D)	(NA)
	Massachusetts	-	19	11	FF (D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Michigan	-	27	13	EE (D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Minnesota	E1	14	5	CC (D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Mississippi	-	10	9	3.6	68.2	2.8	5.6	45.4	164.6	253.4	420.2	6.0	(NA)
	Missouri	-	18	12	FF (D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Nebraska	-	2	2	CC (D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	New Hampshire	-	5	5	BB (D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	New Jersey	E1	51	21	3.2	67.2	2.5	4.7	45.1	130.3	122.2	253.1	7.0	(NA)
	New York	E1	41	23	EE (D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	North Carolina	E1	28	19	FF (D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Ohio	-	40	22	3.6	86.0	2.6	5.1	57.3	206.8	167.3	377.7	(D)	(NA)
	Pennsylvania	-	32	19	4.7	113.7	3.4	6.3	72.9	184.1	158.2	350.1	(D)	(NA)
	South Carolina	-	7	6	1.4	32.4	.9	1.9	19.3	105.3	80.8	184.4	5.6	(NA)
	Tennessee	-	14	9	1.6	35.4	1.2	2.4	24.0	114.7	90.5	205.8	(D)	(NA)
	Texas	-	39	13	EE (D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Virginia	-	17	11	2.8	63.3	1.8	3.6	31.5	128.8	109.1	241.2	7.7	(NA)
	Wisconsin	-	25	17	5.4	128.5	4.0	7.6	85.5	455.6	357.4	813.9	19.7	(NA)
362	Electrical industrial apparatus	-	2 206	911	165.5	3 881.9	110.1	215.4	2 122.7	8 899.2	6 352.5	15 266.3	446.3	(NA)
	Alabama	E1	24	5	CC (D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Arizona	E1	27	6	.8	15.6	.5	1.0	8.7	32.7	29.3	63.0	(D)	(NA)
	Arkansas	-	22	15	6.4	123.9	5.1	9.6	88.7	447.9	242.8	690.6	28.8	(NA)
	California	E1	308	88	11.8	276.3	7.0	14.1	123.2	594.6	321.5	916.2	22.4	(NA)
	Connecticut	-	75	30	5.1	111.2	3.2	5.8	51.4	192.2	144.7	336.8	13.0	(NA)
	Florida	-	63	23	3.2	82.9	1.7	3.5	30.4	157.5	105.3	269.7	6.1	(NA)
	Georgia	-	28	10	2.2	52.9	1.5	3.0	28.9	166.8	134.6	300.8	6.2	(NA)
	Illinois	-	163	81	10.6	224.9	7.2	14.1	116.6	470.3	401.0	871.0	(D)	(NA)
	Indiana	-	72	35	8.0	179.5	6.5	12.6	132.3	387.2	231.7	620.4	(D)	(NA)
	Iowa	-	15	6	CC (D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Kansas	-	26	7	EE (D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Kentucky	-	16	10	FF (D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Louisiana	-	14	4	CC (D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Maryland	-	13	7	1.4	26.1	.8	1.7	10.9	94.8	37.7	132.7	(D)	(NA)
	Massachusetts	E1	74	28	FF (D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Michigan	E1	108	42	FF (D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Minnesota	-	60	31	5.1	135.5	2.8	5.4	67.1	287.0	237.5	528.8	(D)	(NA)
	Mississippi	-	13	9	3.5	70.5	2.9	5.9	51.1	188.0	129.2	317.0	9.6	(NA)
	Missouri	-	35	16	5.6	102.0	4.7	8.7	77.6	256.6	225.3	472.8	13.8	(NA)
	New Hampshire	E2	21	5	CC (D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	New Jersey	E1	91	32	3.5	78.2	2.3	4.3	40.5	171.8	90.1	260.3	9.8	(NA)
	New York	-	138	63	11.5	301.2	8.3	16.1	192.8	690.2	598.5	1 303.6	(D)	(NA)
	North Carolina	-	54	34	9.4	211.9	6.4	12.9	117.0	584.9	456.9	1 053.5	22.5	(NA)
	Ohio	-	145	68	14.0	386.1	7.8	15.7	183.5	782.2	582.3	1 379.9	53.3	(NA)
	Oklahoma	-	18	6	EE (D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Pennsylvania	-	132	67	10.9	279.4	6.7	13.8	140.9	530.1	366.0	873.0	26.4	(NA)
	Rhode Island	-	8	3	CC (D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	South Carolina	-	17	10	1.9	50.8	1.1	2.4	25.9	144.4	118.8	262.7	20.2	(NA)
	Tennessee	E1	35	20	6.0	124.7	5.1	9.7	98.6	298.0	339.5	636.6	14.3	(NA)
	Texas	E2	99	41	FF (D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Virginia	-	33	13	5.4	136.2	2.8	5.6	61.3	361.3	181.4	517.1	11.6	(NA)
	Washington	E4	46	11	.8	16.9	.5	.9	8.2	32.5	23.2	56.0	1.2	(NA)
	West Virginia	E1	10	6	CC (D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Wisconsin	-	102	54	14.7	368.2	9.7	18.3	188.4	783.0	524.8	1 317.5	35.0	(NA)
363	Household appliances	-	481	248	116.8	2 642.1	92.5	180.0	1 934.6	7 436.2	9 190.5	16 497.8	430.3	129.4
	Alabama	-	9	5	2.7	48.7	2.4	4.7	39.5	146.2	206.8	351.4	6.4	2.0
	Arkansas	-	10	8	FF (D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.6	193.2
	California	-	49	20	3.3	72.2	2.3	4.8	43.7	217.3	221.8	427.9	12.5	3.7
	Connecticut	-	11	7	1.8	32.9	1.2	2.2	16.8	102.9	79.3	181.8	(D)	2.9
	Georgia	-	6	4	3.2	55.6	2.5	5.2	41.8	146.3	327.0	468.3	14.0	1.6
	Illinois	-	33	16	10.3	215.3	7.4	14.5	161.9	586.3	694.2	1 272.1	23.5	14.4
	Indiana	-	20	13	8.3	197.0	6.9	12.6	147.7	519.5	605.2	1 096.3	27.7	9.2
	Iowa	-	8	7	FF (D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.8
	Kentucky	-	10	7	FF (D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF
	Louisiana	E1	6	1	BB (D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB
	Maryland	-	4	1	CC (D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE
	Massachusetts	E3	17	5	CC (D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7
	Michigan	-	19	11	5.8	158.0	4.7	10.0	125.0	326.4	488.2	809.8	(D)	5.9
	Minnesota	-	5	1	CC (D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.3
	Mississippi	-	10	10	EE (D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.9
	Missouri	-	13	11	3.0	42.8	2.6	5.2	31.8	168.4	197.8	364.3	5.5	FF
	Nevada	-	13	4	CC (D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB
	New Jersey	-	13	5	.7	12.9	.5	.8	5.2	47.8	33.4	80.3	.9	1.8
	New York	E1	30	9	1.2	17.5	.9	1.7	11.1	55.4	36.5	103.0	(D)	4.3
	North Carolina	-	13	9	FF (D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5.6
	Ohio	-	31	19	16.6	449.0	12.7	24.7	325.3	1 418.5	1 344.2	2 726.1	88.4	16.1
	Pennsylvania	-	20	9	2.7	64.8	1.8	3.9	35.9	173.4	178.1	355.1	(D)	4.4
	South Carolina	-	11	8	3.0	53.5	2.5	4.7	37.2	140.5	176.5	312.6	21.5	3.4
	South Dakota	-	2	1	CC (D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC
	Tennessee	-	24	21	10.2	190.1	8.0	15.3	125.7	503.0	844.5	1 333.7	44.5	11.6

See footnotes at end of table.

Table 2. Industry Group Statistics by State: 1987 and 1982—Con.

[Includes industry groups with 450 manufacturing employees or more. Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry group and geographic area	1987											1982		
		All establishments ²			All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materials ⁴ (million dollars)	Value of shipments ⁴ (million dollars)	New capital expend- itures (million dollars)	All em- ployees ³ (1,000)	Value added by manu- facture (million dollars)
		E ¹	Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
36	Electronic and other electric equipment —Con.														
363	Household appliances—Con.														
	Texas	-	25	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.8	51.7	
	Virginia	-	5	4	1.0	18.8	.8	1.4	12.4	40.2	71.6	116.0	1.2	38.2	
	Wisconsin	-	20	13	5.6	147.9	3.7	7.0	85.1	420.8	360.7	790.8	13.7	6.6	313.9
364	Electric lighting and wiring equipment	-	1 951	982	166.6	3 731.9	123.3	242.0	2 405.6	10 259.9	7 829.8	18 004.0	479.9	159.4	6 619.0
	Alabama	E1	24	11	1.6	31.1	1.1	1.8	18.0	80.1	47.2	126.6	3.7	1.9	80.3
	Arkansas	-	19	9	2.4	47.3	2.0	3.8	36.7	158.5	96.3	255.4	4.9	1.8	97.9
	California	E1	353	156	15.2	312.0	10.7	21.9	177.9	839.7	725.9	1 555.6	33.2	11.8	478.3
	Connecticut	-	67	36	6.1	149.3	4.0	7.9	82.6	402.2	224.8	616.6	11.8	6.6	304.6
	Florida	E2	81	24	2.1	36.3	1.6	3.2	22.2	114.9	82.0	196.0	2.7	2.9	87.7
	Georgia	-	26	16	5.3	106.3	3.9	8.1	71.2	279.0	368.5	653.2	10.5	3.1	137.3
	Illinois	-	155	87	17.7	420.5	12.1	23.8	247.1	1 137.5	789.6	1 931.5	57.5	17.5	696.3
	Indiana	-	37	25	9.0	293.2	7.0	13.9	212.0	559.5	495.1	1 052.4	39.7	7.3	359.1
	Kansas	-	11	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)	(D)
	Kentucky	-	21	11	3.4	77.3	2.5	4.9	50.2	293.2	168.9	460.9	12.6	3.8	201.8
	Louisiana	-	7	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)	(D)
	Maine	-	9	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)	(D)
	Maryland	E5	14	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	9.6
	Massachusetts	-	59	31	5.9	133.6	4.5	8.6	89.4	428.0	229.7	655.5	(D)	7.4	326.5
	Michigan	-	53	21	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.9	64.1
	Minnesota	-	16	8	2.7	79.1	1.9	3.9	58.2	280.1	187.9	436.8	(D)	1.7	73.1
	Mississippi	-	12	11	3.0	54.9	2.3	4.2	33.2	181.8	202.0	385.9	7.3	2.5	122.9
	Missouri	-	35	21	4.5	96.4	3.1	6.3	56.5	339.6	190.4	528.1	14.4	4.3	215.5
	Nebraska	-	6	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	New Hampshire	-	15	8	2.7	63.8	2.1	4.9	41.1	168.3	96.2	263.5	(D)	EE	(D)
	New Jersey	-	114	64	8.0	164.7	6.0	12.4	99.3	447.2	357.8	811.1	19.2	9.8	320.2
	New York	-	242	116	17.4	363.8	12.2	22.7	206.2	732.9	681.8	1 418.9	(D)	18.7	675.7
	North Carolina	-	48	21	5.5	118.9	4.4	8.6	73.9	244.9	167.5	406.7	(D)	FF	(D)
	Ohio	-	114	70	15.7	404.6	12.4	24.5	300.7	1 310.1	828.1	2 141.6	61.3	16.2	793.1
	Oklahoma	-	12	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	47.2
	Pennsylvania	-	139	80	11.4	229.3	8.7	16.4	147.2	654.7	523.6	1 157.6	22.0	13.2	490.3
	Rhode Island	-	19	12	3.0	53.2	2.4	4.9	39.1	113.9	90.7	205.2	5.5	FF	(D)
	South Carolina	-	14	11	2.0	33.7	1.6	3.0	23.3	117.2	92.0	208.3	2.6	EE	(D)
	Tennessee	-	24	16	3.9	74.5	3.1	6.2	58.6	196.4	149.1	344.1	15.1	2.9	106.5
	Texas	E1	75	38	3.2	63.7	2.3	4.4	33.3	151.9	175.5	325.0	(D)	3.5	119.5
	Virginia	-	11	5	1.3	32.7	.9	1.6	22.5	191.3	82.2	271.6	(D)	1.0	55.6
	Washington	-	16	5	.8	16.0	.5	1.1	10.0	45.7	35.4	80.8	1.2	1.0	43.5
	West Virginia	-	5	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.0	74.8
	Wisconsin	E1	28	15	1.4	26.8	1.0	1.9	17.1	64.9	54.8	119.8	(D)	1.8	62.8
365	Household audio and video equipment	-	854	244	44.2	849.7	33.8	65.6	523.0	3 064.3	4 815.3	7 832.8	175.6	65.6	3 200.1
	Alabama	-	10	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Arkansas	-	7	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	California	E1	212	60	7.4	178.7	5.2	10.5	94.7	529.6	995.2	1 521.7	46.5	(NA)	(NA)
	Florida	E8	24	5	.6	11.2	.4	.8	6.0	21.3	21.2	42.7	2.7	(NA)	(NA)
	Georgia	-	14	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Illinois	-	38	14	3.5	70.1	2.4	4.6	37.8	166.5	278.1	449.7	(D)	(NA)	(NA)
	Indiana	-	21	11	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Kentucky	E1	8	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Massachusetts	-	20	11	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Michigan	E3	17	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Mississippi	-	2	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Missouri	-	11	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	New Jersey	E1	44	21	1.9	31.3	1.4	2.8	18.8	100.4	253.7	346.5	4.3	(NA)	(NA)
	New York	E3	104	18	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	North Carolina	E1	11	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Pennsylvania	-	19	6	2.3	48.8	2.0	4.0	35.6	158.4	140.4	298.5	(D)	(NA)	(NA)
	Tennessee	-	48	9	5.2	95.1	4.1	7.2	61.8	320.7	954.0	1 277.6	27.6	(NA)	(NA)
	Texas	E2	31	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Virginia	E2	10	4	.7	8.6	.5	1.0	4.5	35.6	21.0	56.5	(D)	(NA)	(NA)
	Washington	-	19	6	.7	12.3	.5	1.1	7.1	41.0	94.1	132.1	1.9	(NA)	(NA)
366	Communications equipment	-	1 506	914	260.2	7 537.0	128.3	246.2	2 887.5	19 965.6	14 092.3	34 000.6	1 238.9	(NA)	(NA)
	Alabama	-	15	9	1.9	42.1	1.0	1.9	13.7	103.9	62.6	164.1	4.4	(NA)	(NA)
	Arizona	-	23	12	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	California	E1	338	211	44.9	1 545.7	15.0	29.6	345.4	3 512.8	1 750.6	5 271.6	318.2	(NA)	(NA)
	Colorado	-	23	16	4.9	145.3	3.1	5.6	77.6	741.5	535.2	1 305.1	17.5	(NA)	(NA)
	Connecticut	E2	36	21	2.7	59.3	1.3	2.6	25.9	214.0	110.5	315.1	16.8	(NA)	(NA)
	Florida	-	97	55	25.8	741.8	9.3	17.9	178.4	1 851.5	836.0	2 705.8	89.7	(NA)	(NA)
	Georgia	E1	40	27	6.9	175.4	3.4	6.3	64.0	616.1	460.1	1 057.1	52.7	(NA)	(NA)
	Illinois	-	71	53	21.1	679.3	9.0	17.3	209.8	1 647.8	1 299.7	2 980.2	115.4	(NA)	(NA)
	Indiana	E1	16	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Iowa	-	7	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Kansas	E2	8	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Louisiana	-	5	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Maine	-	6	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Maryland	E2	33	22	5.5	165.1	2.3	4.6	51.4	308.5	221.8	556.6	10.7	(NA)	(NA)
	Massachusetts	-	69	46	23.1	682.6	13.1	26.1	333.1	2 025.5	1 378.9	3 378.2	167.0	(NA)	(NA)

See footnotes at end of table.

Table 2. Industry Group Statistics by State: 1987 and 1982—Con.

[Includes industry groups with 450 manufacturing employees or more. Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes.]

1987 SIC code	Industry group and geographic area	1987											1982		
		E ¹	All establishments ²		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materials ⁴ (million dollars)	Value of shipments ⁴ (million dollars)	New capital expend- itures (million dollars)	All em- ployees ³ (1,000)	Value added by manu- facture (million dollars)
			Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
36	Electronic and other electric equipment —Con.														
366	Communications equipment—Con.														
	Michigan	-	12	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
	Minnesota	-	25	17	3.7	82.9	2.4	4.6	36.5	196.8	157.5	361.1	7.4	(NA)	
	Mississippi	-	5	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
	Missouri	E1	17	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
	Nebraska	-	13	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
	New Jersey	E1	83	52	13.9	388.5	9.7	18.4	246.0	1 039.9	749.5	1 674.9	46.6	(NA)	
	New Mexico	-	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
	New York	E1	122	74	13.3	332.3	6.5	12.6	124.5	751.2	580.5	1 302.1	(D)	(NA)	
	North Carolina	-	31	16	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
	Ohio	-	35	19	7.4	191.8	4.7	7.8	105.5	528.2	454.2	984.9	(D)	(NA)	
	Oklahoma	-	13	7	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
	Oregon	-	32	15	1.4	36.6	.7	1.6	12.5	136.7	194.5	310.2	12.9	(NA)	
	Pennsylvania	E1	59	32	5.4	145.0	2.3	4.9	45.3	258.5	162.5	421.6	9.7	(NA)	
	Rhode Island	E2	5	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
	South Carolina	E1	11	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
	Tennessee	-	15	12	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
	Texas	-	98	54	17.3	518.2	8.1	16.3	176.2	1 187.6	930.2	2 130.9	83.7	(NA)	
	Utah	E1	14	12	1.7	37.7	1.0	2.0	15.9	94.7	63.1	159.1	4.0	(NA)	
	Virginia	-	40	24	6.2	159.2	3.6	7.1	62.7	400.5	259.2	631.6	21.3	(NA)	
	Washington	E1	37	21	1.5	36.3	.7	1.4	11.6	86.8	43.3	130.0	4.3	(NA)	
	Wisconsin	-	10	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
367	Electronic components and accessories	E1	5 836	2 881	546.4	13 623.0	329.3	652.1	6 078.6	30 815.4	19 831.9	50 257.7	3 100.8	(NA)	(NA)
	Alabama	-	27	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
	Arizona	-	133	69	26.6	640.1	13.7	29.3	234.8	1 824.0	595.5	2 403.1	(D)	(NA)	
	Arkansas	E3	23	12	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
	California	E2	1 687	810	145.0	3 899.4	82.9	166.5	1 696.4	9 054.4	4 569.5	13 595.3	848.6	(NA)	(NA)
	Colorado	E1	97	38	6.9	175.4	3.9	7.9	79.7	303.7	261.8	547.0	49.8	(NA)	(NA)
	Connecticut	E2	169	97	12.4	263.4	8.7	17.1	140.5	498.2	324.3	820.5	27.6	(NA)	(NA)
	Florida	E1	208	99	18.2	384.4	10.9	21.6	169.4	771.5	448.7	1 225.5	78.1	(NA)	(NA)
	Georgia	E3	46	18	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
	Idaho	-	12	10	3.7	79.6	2.5	4.5	37.9	207.1	75.2	280.7	(D)	(NA)	
	Illinois	E1	299	157	22.5	433.2	16.0	32.3	243.9	891.5	605.0	1 493.6	58.8	(NA)	(NA)
	Indiana	-	101	67	12.5	229.0	9.9	18.5	152.3	401.9	388.6	789.5	35.8	(NA)	(NA)
	Iowa	E1	22	12	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
	Kansas	E2	42	17	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
	Kentucky	E1	19	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
	Maine	E1	24	15	4.4	90.3	3.0	5.1	38.6	298.0	62.8	361.4	23.9	(NA)	(NA)
	Maryland	E3	75	39	3.7	84.7	2.4	4.8	44.6	165.3	95.8	263.1	13.2	(NA)	(NA)
	Massachusetts	E1	388	212	35.2	827.9	22.3	45.4	417.3	1 617.1	853.1	2 449.2	146.3	(NA)	(NA)
	Michigan	E2	113	46	3.7	68.3	2.7	5.3	38.2	146.8	112.2	259.4	11.3	(NA)	(NA)
	Minnesota	E1	115	74	11.3	237.0	8.2	15.3	129.0	478.7	315.4	789.6	41.3	(NA)	(NA)
	Missouri	-	43	23	7.1	194.7	4.9	9.7	117.2	383.1	227.5	607.3	26.3	(NA)	(NA)
	Nebraska	-	17	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
	New Hampshire	E1	105	62	8.3	163.8	5.6	10.8	88.0	295.5	204.6	496.6	20.5	(NA)	(NA)
	New Jersey	E1	275	136	15.0	350.8	9.3	17.9	160.5	624.7	367.5	987.0	39.1	(NA)	(NA)
	New Mexico	-	22	7	2.4	59.0	1.5	3.6	29.6	181.5	105.1	283.2	(D)	(NA)	
	New York	-	406	210	55.9	1 601.6	27.9	56.9	526.5	3 347.5	2 676.5	5 968.9	363.8	(NA)	(NA)
	North Carolina	-	91	59	14.2	384.4	7.4	14.4	144.5	669.5	1 559.9	2 116.5	75.4	(NA)	(NA)
	Ohio	-	150	75	10.7	234.8	7.4	14.5	138.6	582.7	403.0	985.8	58.0	(NA)	(NA)
	Oklahoma	E1	30	10	1.7	33.3	1.4	2.5	23.1	66.9	40.6	108.5	(D)	(NA)	
	Oregon	E1	80	34	5.3	131.8	3.2	5.9	55.2	441.0	111.4	550.6	75.3	(NA)	(NA)
	Pennsylvania	-	268	135	27.9	699.9	19.3	37.6	417.5	1 778.4	1 297.5	3 068.1	141.7	(NA)	(NA)
	Rhode Island	-	28	21	2.3	44.2	1.5	2.9	19.6	102.5	69.3	166.6	9.4	(NA)	(NA)
	South Carolina	E1	38	21	7.4	136.8	5.9	11.5	88.8	370.9	198.8	565.7	32.4	(NA)	(NA)
	South Dakota	-	12	7	1.5	27.6	1.1	2.5	15.3	70.4	70.6	140.6	(D)	(NA)	
	Tennessee	-	42	12	1.8	37.8	1.5	2.8	25.3	63.8	77.2	144.1	(D)	(NA)	
	Texas	-	298	123	38.9	1 136.4	19.3	38.3	391.0	2 870.8	2 280.9	5 032.2	330.5	(NA)	(NA)
	Utah	E1	40	12	4.0	93.0	2.8	5.4	45.1	139.6	83.0	243.6	24.2	(NA)	(NA)
	Vermont	-	15	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
	Virginia	-	61	31	7.0	161.7	5.1	10.0	106.4	495.3	295.5	774.1	23.9	(NA)	(NA)
	Washington	-	85	31	5.1	131.8	2.8	5.4	51.8	226.1	162.0	399.6	20.5	(NA)	(NA)
	Wisconsin	-	70	29	2.7	51.8	1.9	3.8	27.2	125.8	107.6	234.1	10.4	(NA)	(NA)
369	Miscellaneous electrical equipment and supplies	-	2 328	954	188.0	4 681.8	128.2	253.1	2 688.4	10 870.6	10 457.4	21 230.3	816.9	(NA)	(NA)
	Alabama	-	27	16	7.8	139.3	6.7	13.1	107.7	316.0	364.8	690.6	30.8	(NA)	(NA)
	Arizona	E2	24	5	.6	15.5	.3	.7	4.6	12.1	16.8	26.2	(D)	(NA)	
	Arkansas	E1	16	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
	California	-	453	178	27.3	716.1	16.1	32.5	314.3	1 447.6	1 338.1	2 758.7	135.4	(NA)	(NA)
	Colorado	-	33	15	1.3	31.5	.8	1.5	14.6	65.3	38.0	95.7	6.0	(NA)	(NA)
	Connecticut	-	53	22	2.8	70.8	1.6	3.3	29.4	148.2	103.3	250.7	(D)	(NA)	
	Florida	-	105	39	7.7	205.4	4.2	8.4	82.3	474.3	346.6	814.7	34.4	(NA)	(NA)
	Georgia	-	50	24	4.5	97.6	3.6	7.1	74.9	356.1	562.6	916.2	44.2	(NA)	(NA)
	Illinois	E1	121	44	5.4	104.6	4.0	7.6	67.4	253.8	233.4	487.5	(D)	(NA)	
	Indiana	-	76	52	25.9	837.8	19.1	38.1	579.6	1 372.0	1 801.9	3 184.0	(D)	(NA)	(NA)
	Iowa	-	21	11	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
	Kansas	-	20	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
	Kentucky	-	21	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
	Maine	E2	8	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
	Maryland	-	23	8	2.6	77.4	.9	1.8	16.4	136.4	60.2	220.0	6.1	(NA)	(NA)

See footnotes at end of table.

Table 2. Industry Group Statistics by State: 1987 and 1982—Con.

[Includes industry groups with 450 manufacturing employees or more. Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry group and geographic area	1987											1982		
		All establishments ²			All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materials ⁴ (million dollars)	Value of shipments ⁴ (million dollars)	New capital expend- itures (million dollars)	All em- ployees ³ (1,000)	Value added by manu- facture (million dollars)
		E ¹	Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
36	Electronic and other electric equipment —Con.														
369	Miscellaneous electrical equipment and supplies—Con.														
	Massachusetts	E1	95	39	5.7	145.3	3.4	6.4	62.1	399.8	311.7	688.5	24.3	(NA)	(NA)
	Michigan	E1	97	42	7.0	186.3	5.3	10.6	133.4	436.4	457.4	894.9	(D)	(NA)	(NA)
	Minnesota	—	55	25	2.3	52.1	1.5	2.8	23.5	139.7	113.8	254.3	5.5	(NA)	(NA)
	New York	E1	22	18	4.6	72.8	4.2	8.7	64.0	181.7	184.7	369.1	6.3	(NA)	(NA)
	Missouri	—	42	20	4.9	114.5	3.4	6.7	62.8	291.9	207.3	517.2	10.5	(NA)	(NA)
	Nebraska	E1	13	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	New Hampshire	—	12	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	New Jersey	E3	93	43	5.1	105.8	3.3	6.5	57.7	217.1	205.9	423.2	13.7	(NA)	(NA)
	New York	E1	142	46	11.9	297.9	5.9	11.1	105.0	616.4	440.7	1 086.8	49.3	(NA)	(NA)
	North Carolina	—	40	18	4.7	108.2	3.4	6.7	65.2	414.7	433.9	835.9	21.6	(NA)	(NA)
	North Dakota	—	3	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Ohio	—	84	39	8.9	227.3	6.0	11.9	131.8	519.0	408.2	924.7	34.5	(NA)	(NA)
	Oklahoma	—	29	11	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Oregon	—	35	13	1.4	34.1	.9	1.7	18.0	102.6	52.3	158.3	2.1	(NA)	(NA)
	Pennsylvania	—	96	43	9.0	213.6	7.3	13.9	152.4	594.7	641.7	1 227.1	42.0	(NA)	(NA)
	South Carolina	—	17	8	3.3	60.9	2.8	5.7	44.8	307.0	170.1	476.7	25.6	(NA)	(NA)
	Tennessee	—	34	15	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Texas	—	149	55	8.6	202.5	5.0	9.7	88.5	650.5	502.1	1 044.4	(D)	(NA)	(NA)
	Utah	—	25	7	.6	10.7	.4	.7	5.0	21.0	15.6	36.7	2.6	(NA)	(NA)
	Vermont	—	8	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Virginia	E2	32	12	1.0	20.3	.8	1.4	11.9	45.0	40.8	85.3	1.6	(NA)	(NA)
	Washington	E3	40	7	.7	19.4	.4	.9	9.1	33.9	20.7	55.6	2.9	(NA)	(NA)
	Wisconsin	—	49	23	5.7	131.7	4.6	8.9	91.7	254.2	481.7	742.6	24.5	(NA)	(NA)
37	Transportation equipment	—	10 505	4 269	1 817.4	58 790.4	1 207.8	2 443.6	34 825.7	137 076.2	198 854.1	332 935.7	10 779.7	1 595.9	84 932.3
	Alabama	—	172	82	22.2	643.5	16.9	34.1	465.0	1 117.1	1 340.7	2 447.2	65.1	21.0	833.1
	Arizona	—	148	48	32.7	1 056.5	19.2	41.3	569.9	2 469.4	1 725.6	4 135.0	165.8	17.8	995.3
	Arkansas	—	129	58	9.8	198.2	7.5	14.9	129.4	624.5	872.2	1 395.2	37.6	7.1	278.7
	California	—	1 706	641	296.1	10 492.1	152.8	295.9	4 365.1	21 666.3	15 399.8	36 922.3	1 262.5	258.3	15 356.1
	Colorado	—	92	24	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	12.8	772.6
	Connecticut	—	213	109	81.0	2 660.2	44.8	95.9	1 265.4	5 673.5	3 316.8	8 716.8	342.9	85.2	3 760.2
	Delaware	—	9	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	Florida	E1	828	219	43.6	1 084.6	27.3	54.9	538.1	1 939.4	1 920.7	3 700.2	153.9	47.2	2 220.3
	Georgia	—	214	94	52.7	1 640.2	37.4	77.5	1 034.7	4 746.1	6 956.4	11 673.1	378.0	34.0	1 750.0
	Idaho	E1	30	8	1.1	19.0	.9	1.9	13.5	52.5	59.4	100.1	.6	.9	23.4
	Illinois	—	310	149	40.1	1 141.7	28.1	56.9	711.6	3 288.7	4 872.8	8 111.8	810.6	39.4	1 801.1
	Indiana	—	492	279	75.1	2 290.8	57.0	116.3	1 594.9	4 831.0	7 198.1	12 134.4	477.8	68.2	3 269.2
	Iowa	—	107	51	9.8	201.1	7.6	15.4	133.8	553.8	769.9	1 320.3	23.8	5.3	214.0
	Kansas	—	159	76	54.4	1 637.9	28.8	62.9	862.6	3 440.0	3 057.5	6 187.1	576.5	39.7	2 005.6
	Kentucky	—	87	45	14.7	471.6	12.1	24.5	367.4	2 392.5	5 262.9	7 592.4	(D)	12.1	1 073.9
	Louisiana	—	188	71	21.7	549.9	16.9	35.1	438.3	1 514.1	1 979.8	3 460.1	44.9	26.5	947.0
	Maine	—	112	20	11.0	286.6	9.3	17.0	202.0	569.4	378.5	937.5	(D)	FF	(D)
	Maryland	—	120	32	14.9	476.2	9.8	20.0	295.1	1 269.8	1 980.3	3 230.9	38.9	12.2	650.4
	Massachusetts	—	209	78	23.7	745.0	15.6	30.0	424.0	2 316.5	2 051.5	4 256.1	(D)	20.2	1 578.8
	Michigan	—	678	362	244.3	8 897.9	196.1	402.1	6 832.8	21 358.3	47 170.5	68 449.4	1 500.3	215.7	13 442.6
	Minnesota	—	125	46	8.8	229.7	7.0	13.9	169.7	1 071.3	1 913.9	2 973.1	45.3	6.2	496.1
	Mississippi	—	81	42	18.9	472.1	12.8	24.4	289.6	977.7	893.3	1 874.5	29.1	20.3	958.0
	Missouri	—	214	107	70.4	2 262.6	43.7	87.6	1 346.2	6 257.2	14 465.6	20 877.1	515.4	54.5	4 367.2
	Nebraska	—	43	19	5.1	104.2	4.1	8.3	75.4	334.6	379.9	712.8	20.1	3.8	207.9
	Nevada	E2	27	6	.6	11.8	.4	.7	7.2	38.7	20.6	52.8	(D)	1.4	26.5
	New Hampshire	—	33	8	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.1	61.3
	New Jersey	—	237	82	16.3	476.8	12.5	25.8	343.0	936.5	2 818.2	3 753.5	56.9	17.7	1 275.8
	New Mexico	—	25	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.9	105.0
	New York	—	429	146	61.5	2 151.0	39.5	77.8	1 211.3	4 628.2	5 385.7	9 934.6	421.8	57.4	2 857.0
	North Carolina	—	230	102	22.2	508.2	17.7	36.6	364.2	1 290.7	1 296.9	3 163.3	106.0	15.0	594.0
	North Dakota	—	14	7	1.2	23.9	.7	1.3	12.0	72.8	130.7	202.3	3.1	CC	(D)
	Ohio	—	463	270	145.3	5 033.3	107.2	221.7	3 428.6	14 114.4	25 793.3	39 831.9	887.2	123.6	7 038.3
	Oklahoma	—	137	63	18.9	543.0	14.4	28.4	389.7	1 339.9	2 676.0	3 989.8	29.3	15.9	603.7
	Oregon	—	180	46	9.6	231.5	7.6	14.7	173.4	364.0	939.6	1 291.6	17.7	6.9	304.6
	Pennsylvania	—	320	151	51.7	1 504.8	34.2	69.5	862.2	3 637.6	3 548.4	7 114.7	298.2	60.3	2 606.2
	Rhode Island	E2	74	25	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.5	92.5
	South Carolina	—	111	45	8.8	193.2	6.9	12.9	120.8	623.2	1 070.8	1 607.2	74.4	4.9	172.7
	South Dakota	E2	28	11	.8	16.2	.7	1.3	10.0	30.0	54.0	79.5	(D)	.5	14.7
	Tennessee	—	214	112	33.2	860.2	25.5	51.5	606.5	2 264.9	3 205.8	5 567.9	168.4	24.2	783.1
	Texas	—	617	198	81.7	2 681.8	45.9	94.9	1 293.3	5 311.1	4 600.7	9 639.4	321.1	73.0	3 474.9
	Utah	—	62	22	15.1	494.6	6.7	14.2	175.4	1 055.2	743.5	1 776.2	104.1	9.0	543.1
	Vermont	—	22	8	2.7	73.8	2.3	4.5	60.5	136.4	39.2	167.2	(D)	2.4	70.3
	Virginia	—	158	73	45.2	1 296.7	37.1	73.1	925.0	2 953.2	3 053.6	5 993.5	211.5	36.4	1 421.5
	Washington	—	385	117	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	84.0	3 557.5
	West Virginia	—	23	8	1.1	23.2	.9	1.7	16.3	61.1	45.3	107.4	8.4	1.5	43.0
	Wisconsin	—	188	87	32.6	987.5	26.7	54.2	762.9	2 296.1	4 453.4	6 756.2	70.1	26.9	1 596.6
371	Motor vehicles and equipment	—	4 438	2 085	751.4	23 909.9	607.2	1 234.8	18 422.3	66 367.0	139 925.3	205 923.1	6 578.3	615.6	34 293.5
	Alabama	—	69	40	11.5	352.1	9.3	19.4	270.4	634.8	1 031.1	1 652.5	34.5	7.6	344.0
	Arizona	E2	49	8	1.1	24.1	.8	1.8	16.1	41.7	38.6	75.3	(D)	.4	9.8
	Arkansas	E1	54	28	4.7	92.1	3.9	8.1	68.5	321.2	278.4	595.0	26.5	3.5	155.8
	California	E1	673	271	34.0	796.8	26.8	52.7	577.1	2 125.0	3 934.0	6 027.3	84.5	28.8	1 500.8
	Colorado	E1	52	16	2.0	36.6	1.5	2.9	23.7	97.0	134.2	230.2	2.9	EE	(D)

See footnotes at end of table.

Table 2. Industry Group Statistics by State: 1987 and 1982—Con.

[Includes industry groups with 450 manufacturing employees or more. Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry group and geographic area	1987											1982	
		All establishments ²		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materials ⁴ (million dollars)	Value of shipments ⁴ (million dollars)	New capital expend- itures (million dollars)	All em- ployees ³ (1,000)	Value added by manu- facture (million dollars)
		E ¹	Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							Wages (million dollars)
37	Transportation equipment—Con.													
371	Motor vehicles and equipment—Con.													
	Connecticut	E2	30	15	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	Delaware	-	2	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	Florida	E2	151	51	5.7	108.9	4.4	8.9	71.3	265.2	322.7	588.0	14.7	3.4
	Georgia	-	110	50	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	13.5	747.6
	Illinois	-	197	99	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	20.6	806.3
	Indiana	-	307	172	52.5	1 606.0	42.1	86.7	1 209.5	3 518.9	5 862.7	9 494.8	437.6	38.3
	Iowa	-	71	40	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.6	186.8
	Kansas	-	50	20	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	Kentucky	-	53	31	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	10.5	1 027.2
	Louisiana	-	23	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Maryland	-	36	10	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	Massachusetts	-	57	26	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	Michigan	-	465	275	229.6	8 479.8	185.9	380.4	6 580.8	20 392.8	46 312.1	66 622.0	203.4	12 701.2
	Minnesota	-	53	19	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.6	407.6
	Mississippi	-	38	23	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	Missouri	-	122	76	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	Nebraska	-	30	11	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.4	155.0
	New Hampshire	-	8	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	New Jersey	-	101	36	9.2	294.7	7.6	15.8	234.8	531.9	2 521.3	3 055.2	38.6	FF
	New Mexico	-	11	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	New York	-	169	68	30.5	1 033.6	24.5	50.3	809.4	2 140.5	4 155.1	6 319.8	21.7	756.8
	North Carolina	-	108	56	15.2	350.8	12.1	25.3	251.4	833.8	1 581.3	2 388.8	11.3	464.1
	North Dakota	-	8	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
	Ohio	-	294	181	97.3	3 360.9	79.8	166.5	2 661.0	10 017.3	21 167.2	31 139.0	690.7	81.5
	Oklahoma	-	77	32	10.2	269.4	8.4	15.3	216.0	825.7	2 329.3	3 140.5	13.1	4 539.6
	Oregon	-	65	21	3.6	94.7	3.0	5.5	68.3	148.1	693.6	837.2	9.0	61.0
	Pennsylvania	-	177	89	21.5	594.1	16.4	33.1	422.4	1 547.2	2 109.5	3 581.1	156.7	866.6
	Rhode Island	E2	15	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9	37.1
	South Carolina	-	33	16	4.4	98.2	3.5	6.5	60.5	415.6	812.7	1 195.4	53.2	2.3
	South Dakota	E2	21	8	.7	14.2	.6	1.1	8.8	25.1	50.7	71.6	3.0	90.6
	Tennessee	-	117	64	19.6	476.3	15.1	30.8	339.4	1 463.0	2 745.1	4 217.6	137.4	573.0
	Texas	-	223	77	12.7	321.2	9.9	19.9	234.1	865.0	1 383.7	2 235.2	14.4	561.2
	Utah	-	24	10	1.7	35.0	1.3	2.7	25.8	151.6	190.4	341.5	(D)	EE
	Virginia	-	61	33	9.0	254.4	7.1	14.5	185.8	1 141.8	2 226.1	3 353.0	(D)	6.4
	Washington	-	63	19	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.2
	West Virginia	-	14	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB
	Wisconsin	-	98	54	25.6	837.5	21.3	43.8	657.9	2 019.4	4 183.0	6 213.3	43.8	22.7
372	Aircraft and parts	-	1 622	842	596.0	20 590.2	325.3	666.7	9 712.5	40 802.5	38 755.4	77 304.1	2 536.1	538.6
	Alabama	-	13	10	3.5	86.4	2.1	4.3	51.1	147.2	72.6	222.4	3.4	4.7
	Arizona	-	45	26	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF
	Arkansas	-	16	9	1.9	47.7	1.3	2.9	28.6	192.2	397.9	468.4	2.2	EE
	California	-	395	193	125.0	4 563.8	70.1	136.6	2 143.5	7 430.0	7 038.7	14 623.2	565.1	112.4
	Colorado	E1	18	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE
	Connecticut	-	135	84	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	61.3
	Florida	E2	95	43	17.6	547.4	7.7	15.4	175.6	872.4	639.2	1 369.6	103.7	15.3
	Georgia	-	21	14	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF
	Illinois	-	22	13	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6.2
	Indiana	-	42	28	12.9	490.0	7.6	16.0	263.2	900.5	645.4	1 538.9	24.6	FF
	Kansas	-	70	38	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	32.8
	Kentucky	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB
	Louisiana	E1	5	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
	Maine	-	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE
	Maryland	-	7	5	5.4	173.5	2.7	5.7	86.2	229.9	124.9	340.1	(D)	FF
	Massachusetts	-	37	23	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF
	Michigan	-	64	37	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.2
	Minnesota	-	12	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5
	Missouri	-	17	10	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF
	New Hampshire	-	8	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE
	New Jersey	E1	31	17	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.8
	New Mexico	-	6	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE
	New York	-	98	46	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	29.2
	North Carolina	-	17	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0
	North Dakota	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC
	Ohio	-	71	52	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	30.8
	Oklahoma	-	26	16	7.7	256.2	5.2	11.5	160.7	477.7	277.5	743.9	15.4	8.2
	Oregon	-	11	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE
	Pennsylvania	-	34	18	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	10.7
	South Carolina	-	9	5	1.3	29.7	1.0	1.7	18.9	61.1	64.4	116.5	7.6	BB
	Tennessee	-	13	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF
	Texas	-	116	49	57.6	2 037.5	30.2	63.9	955.4	3 883.1	2 699.9	6 324.4	218.0	43.2
	Utah	E1	10	3	1.1	28.8	.8	1.5	19.4	52.6	21.7	76.6	(D)	.9
	Vermont	-	5	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE
	Washington	-	100	40	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF
	Wisconsin	-	8	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB
373	Ship and boat building and repairing	-	2 766	720	177.4	4 265.6	137.6	272.3	2 933.1	7 656.7	6 238.9	13 856.9	406.7	205.0
	Alabama	E1	59	19	2.3	47.7	1.8	3.3	37.1	96.4	71.1	167.2	(D)	5.4
	Arizona	-	19	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB
	Arkansas	-	31	13	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE
	California	E1	329	73	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	21.5
	Connecticut	-	34	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF

See footnotes at end of table.

Table 2. Industry Group Statistics by State: 1987 and 1982—Con.

[Includes industry groups with 450 manufacturing employees or more. Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry group and geographic area	1987											1982		
		All establishments ²			All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materials ⁴ (million dollars)	Value of shipments ⁴ (million dollars)	New capital expend- itures (million dollars)	All em- ployees ³ (1,000)	Value added by manu- facture (million dollars)
		E ¹	Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
37	Transportation equipment—Con.														
373	Ship and boat building and repairing—Con.														
	Florida	E1	506	105	16.6	334.2	13.3	26.8	237.6	691.0	731.9	1 413.8	29.5	14.9	465.7
	Georgia	-	38	11	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9	34.6
	Illinois	E1	19	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	26.0
	Indiana	-	29	17	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.1	79.9
	Kansas	-	11	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
	Kentucky	-	22	11	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	19.6
	Louisiana	-	145	60	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	Maine	-	94	13	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	Maryland	-	62	9	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.4	136.7
	Massachusetts	E1	92	16	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.9	138.0
	Michigan	-	68	15	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Minnesota	-	29	12	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	30.8
	Mississippi	-	32	14	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	16.4	620.6
	Missouri	-	32	12	1.3	21.1	1.1	2.2	16.0	49.0	60.2	105.9	2.2	1.7	52.0
	New Jersey	-	81	22	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	New York	E3	119	23	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.1	135.1
	North Carolina	-	74	25	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.3	59.9
	Ohio	E1	34	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	31.3
	Oregon	E1	61	12	2.2	48.1	1.8	3.9	38.1	73.3	86.7	160.0	1.5	2.9	143.6
	Pennsylvania	-	33	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Rhode Island	E1	53	17	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.6	49.7
	South Carolina	-	48	18	2.2	43.5	1.8	3.4	28.6	79.5	138.9	217.8	6.7	2.0	72.7
	Tennessee	-	55	26	4.1	68.2	3.5	6.7	54.4	211.1	241.1	445.7	8.1	1.8	49.1
	Texas	E2	148	33	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	11.3	401.3
	Virginia	-	77	34	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	Washington	-	193	47	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	Wisconsin	-	42	12	5.0	110.6	4.1	7.8	80.4	195.7	193.6	385.8	11.0	3.1	123.5
374	Railroad equipment	-	174	93	22.1	630.6	14.3	29.1	349.9	1 295.4	1 237.1	2 470.9	58.9	34.5	1 491.8
	Alabama	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Georgia	-	8	5	.5	12.4	.3	.7	7.7	24.7	34.3	59.0	(D)	.6	14.7
	Illinois	-	36	25	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	10.1	587.2
	New York	-	10	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Ohio	-	11	6	.8	18.7	.5	1.1	11.4	41.5	46.3	89.5	(D)	1.7	37.7
	Oregon	-	4	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Pennsylvania	-	25	15	8.6	247.8	5.1	11.2	124.5	546.1	399.3	961.4	26.8	13.3	538.2
375	Motorcycles, bicycles, and parts	E1	246	56	7.4	158.3	5.8	12.1	110.9	367.8	679.6	1 062.6	30.7	13.0	402.5
	California	E4	113	24	1.5	27.6	1.1	2.2	16.9	64.1	98.9	163.6	(D)	1.7	43.0
	Ohio	-	11	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Pennsylvania	-	4	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
376	Guided missiles, space vehicles, parts	-	141	109	213.7	8 114.2	81.8	159.2	2 607.5	18 256.8	8 391.1	26 285.2	1 075.5	146.3	9 856.6
	Alabama	-	9	7	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.0	151.2
	Arizona	-	9	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	Arkansas	-	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	California	-	50	38	114.2	4 536.8	37.7	71.8	1 217.6	10 888.9	3 473.1	14 117.6	584.6	85.0	5 943.8
	Colorado	-	4	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	Florida	-	9	8	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	Georgia	-	3	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	Louisiana	-	2	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	Maine	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
	Maryland	-	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	Massachusetts	-	4	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Michigan	-	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Missouri	-	2	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	Ohio	-	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	Pennsylvania	-	1	1	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	Tennessee	-	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Texas	-	8	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
	Utah	-	3	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	Virginia	-	3	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	Washington	-	5	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
379	Miscellaneous transportation equipment	-	1 118	364	49.4	1 121.5	35.9	69.4	689.5	2 329.9	3 626.7	6 032.8	93.5	42.9	1 977.0
	Alabama	E2	19	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
	California	-	140	39	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	8.8	449.9
	Florida	E3	55	10	.7	9.9	.5	1.0	6.5	19.0	31.5	50.4	(D)	CC	(D)
	Georgia	-	33	11	1.9	50.5	1.2	2.3	17.4	110.3	188.5	296.6	9.5	1.2	51.8
	Idaho	-	11	4	.6	9.3	.5	1.1	6.8	22.1	33.3	54.3	.3	.3	7.1
	Indiana	-	109	61	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6.8	260.5
	Iowa	E1	22	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
	Kansas	-	22	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	11.8
	Maryland	-	10	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
	Michigan	-	69	33	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.0	328.0
	Minnesota	-	21	7	1.6	28.0	1.2	1.8	15.9	86.2	97.7	182.8	(D)	.7	22.9
	Missouri	E2	33	5	.5	6.8	.4	.7	4.2	20.0	22.6	42.1	(D)	.3	6.6
	Nebraska	-	6	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	New York	E1	22	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	North Carolina	E3	29	9	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)

See footnotes at end of table.

Table 2. Industry Group Statistics by State: 1987 and 1982—Con.

[Includes industry groups with 450 manufacturing employees or more. Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry group and geographic area	1987											1982		
		All establishments ²		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materials ⁴ (million dollars)	Value of shipments ⁴ (million dollars)	New capital expend- itures (million dollars)	All em- ployees ³ (1,000)	Value added by manu- facture (million dollars)	
		Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)							
E ¹															
37	Transportation equipment—Con.														
379	Miscellaneous transportation equipment—Con.														
	Ohio	-	40	20	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.4	328.9
	Oklahoma	E1	21	11	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	Oregon	E1	35	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	23.9
	Pennsylvania	-	46	17	5.1	123.8	3.1	6.0	60.3	256.6	283.3	586.1	(D)	5.1	189.4
	South Carolina	E6	15	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	.1
	Texas	E2	101	25	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.1	58.2
	Washington	-	17	4	.7	15.0	.4	1.0	9.3	24.8	58.3	83.8	(D)	.4	10.5
	Wisconsin	E2	28	11	.7	12.1	.4	.8	6.9	24.9	32.1	55.6	(D)	.4	14.6
38	Instruments and related products	-	10 193	4 002	982.4	28 778.1	502.7	1 003.6	11 531.2	70 974.6	37 211.3	107 324.8	3 872.4	(NA)	(NA)
	Alabama	E1	75	23	4.0	93.6	2.6	5.4	45.7	245.1	170.5	404.1	17.5	(NA)	(NA)
	Arizona	-	131	41	15.8	477.3	6.6	12.5	140.7	943.4	556.8	1 446.8	51.4	(NA)	(NA)
	Arkansas	-	34	12	3.3	66.1	2.5	5.3	42.7	240.7	112.4	355.9	9.4	(NA)	(NA)
	California	-	2 025	815	192.0	6 198.4	90.5	180.5	2 336.7	13 374.7	6 539.8	19 912.4	715.5	(NA)	(NA)
	Colorado	-	221	71	26.3	878.4	10.3	19.6	238.6	2 467.9	1 209.7	3 743.2	120.3	(NA)	(NA)
	Connecticut	-	296	146	27.4	766.2	14.4	28.4	288.1	1 974.0	1 236.8	3 178.1	103.3	(NA)	(NA)
	Delaware	-	19	6	2.5	68.1	1.1	2.1	18.4	168.6	145.1	307.7	(D)	(NA)	(NA)
	Florida	-	429	127	41.7	1 152.3	19.8	42.1	362.7	2 824.7	1 268.9	4 082.8	169.3	(NA)	(NA)
	Georgia	E1	136	58	8.4	189.0	5.3	10.3	85.4	496.2	298.9	795.7	19.2	(NA)	(NA)
	Illinois	-	524	222	36.4	954.5	18.3	35.7	353.4	2 217.1	1 218.8	3 364.4	(D)	(NA)	(NA)
	Indiana	-	180	65	18.7	471.8	10.6	20.8	188.7	1 150.7	571.2	1 710.0	67.2	(NA)	(NA)
	Iowa	-	51	12	7.9	231.1	2.9	6.0	60.4	462.0	208.0	653.5	(D)	(NA)	(NA)
	Kansas	E1	62	27	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Kentucky	E1	34	16	2.5	50.7	1.9	3.6	30.5	105.3	91.9	194.8	6.8	(NA)	(NA)
	Louisiana	E2	42	10	.7	16.7	.5	.9	9.2	32.7	22.5	56.6	(D)	(NA)	(NA)
	Maine	E2	18	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Maryland	-	164	62	30.0	1 032.8	12.3	20.8	339.2	1 857.2	1 069.9	2 927.2	128.2	(NA)	(NA)
	Massachusetts	-	591	288	69.6	2 133.5	39.0	78.7	932.5	5 129.0	2 879.0	7 874.5	290.3	(NA)	(NA)
	Michigan	E1	311	118	15.6	403.4	9.6	19.1	208.8	921.5	637.6	1 553.6	47.2	(NA)	(NA)
	Minnesota	-	240	108	25.6	719.2	13.2	26.4	289.1	1 667.5	661.8	2 301.3	85.3	(NA)	(NA)
	Mississippi	-	31	12	1.4	25.0	1.2	2.3	16.9	59.2	129.5	185.7	4.3	(NA)	(NA)
	Missouri	-	135	65	11.2	283.6	5.5	10.8	101.5	647.8	352.7	1 008.8	20.8	(NA)	(NA)
	Nebraska	-	31	15	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Nevada	E2	35	10	1.9	46.5	1.0	1.9	17.0	61.5	52.2	113.9	6.2	(NA)	(NA)
	New Hampshire	-	102	43	15.9	462.6	9.3	18.3	284.7	1 362.3	369.6	1 415.8	53.8	(NA)	(NA)
	New Jersey	-	525	211	48.9	1 567.9	27.8	54.5	854.8	3 615.9	1 990.4	5 548.0	163.4	(NA)	(NA)
	New Mexico	-	35	11	4.2	102.9	2.8	5.7	71.1	-60.5	189.5	210.0	19.2	(NA)	(NA)
	New York	-	857	342	124.8	3 994.4	59.4	119.8	1 535.9	13 016.2	6 147.7	19 099.5	661.0	(NA)	(NA)
	North Carolina	-	160	67	13.8	336.6	9.3	19.7	183.4	961.0	551.8	1 502.5	54.4	(NA)	(NA)
	Ohio	-	420	178	26.9	651.2	15.6	30.5	289.3	1 435.2	908.3	2 322.5	71.0	(NA)	(NA)
	Oklahoma	-	96	29	4.0	99.7	2.5	5.3	50.7	439.8	245.5	686.0	18.8	(NA)	(NA)
	Oregon	E1	158	42	14.0	392.2	5.9	12.2	122.4	790.4	453.5	1 278.8	56.4	(NA)	(NA)
	Pennsylvania	-	510	216	40.0	1 061.4	23.3	47.1	496.7	2 484.0	1 592.2	4 065.8	145.2	(NA)	(NA)
	Rhode Island	-	69	29	8.3	213.8	4.4	8.6	84.7	500.8	241.1	740.0	21.8	(NA)	(NA)
	South Carolina	-	51	27	6.8	125.7	5.2	10.5	81.0	305.2	255.0	567.7	20.2	(NA)	(NA)
	South Dakota	-	7	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Tennessee	-	106	39	8.4	191.6	5.3	10.5	95.1	547.4	320.4	855.9	(D)	(NA)	(NA)
	Texas	-	553	183	54.3	1 533.7	26.4	54.7	561.7	3 337.8	1 935.4	5 189.5	263.4	(NA)	(NA)
	Utah	-	75	28	8.2	215.3	4.6	9.5	87.4	436.9	237.1	690.7	35.7	(NA)	(NA)
	Vermont	-	25	7	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Virginia	-	138	60	16.3	481.3	6.5	12.7	128.0	1 369.2	518.3	1 786.8	63.0	(NA)	(NA)
	Washington	-	198	49	13.1	378.0	5.9	11.8	136.7	928.5	510.1	1 431.5	43.4	(NA)	(NA)
	West Virginia	-	22	6	1.0	26.3	.5	1.1	11.2	116.6	45.2	163.9	(D)	(NA)	(NA)
	Wisconsin	-	197	82	15.3	382.9	9.1	18.1	184.6	1 312.4	832.1	2 121.9	63.4	(NA)	(NA)
381	Search and navigation equipment	-	1 084	507	369.4	12 368.0	158.8	314.4	4 466.8	24 738.7	12 208.3	36 266.8	1 439.0	(NA)	(NA)
	Alabama	-	13	5	1.2	28.4	.9	2.0	14.8	77.5	66.3	143.2	7.2	(NA)	(NA)
	Arizona	-	17	8	10.4	321.0	4.3	8.3	99.9	556.1	378.1	884.9	37.9	(NA)	(NA)
	California	-	244	133	99.5	3 582.9	41.6	81.4	1 313.4	6 730.7	3 007.2	9 810.5	350.1	(NA)	(NA)
	Colorado	-	27	8	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Connecticut	-	27	16	7.1	235.1	2.7	5.4	60.5	331.7	229.3	545.0	23.4	(NA)	(NA)
	Florida	-	63	26	25.0	786.8	8.9	19.9	172.9	1 984.6	843.1	2 826.1	95.8	(NA)	(NA)
	Georgia	E3	13	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Illinois	-	32	18	7.6	233.0	1.8	3.6	39.2	491.9	223.9	648.5	(D)	(NA)	(NA)
	Indiana	-	11	7	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Iowa	-	5	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Kansas	-	22	11	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Maryland	-	28	14	24.6	903.4	9.0	14.5	277.9	1 574.8	876.5	2 452.9	108.4	(NA)	(NA)
	Massachusetts	-	62	36	22.2	725.0	13.3	26.4	344.9	1 528.1	999.9	2 467.9	87.2	(NA)	(NA)
	Michigan	-	20	10	4.1	115.0	2.9	5.8	79.6	184.9	198.3	391.9	8.9	(NA)	(NA)
	Minnesota	-	12	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Missouri	-	10	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	New Hampshire	-	8	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	New Jersey	-	60	28	21.1	778.6	13.4	25.7	539.6	1 498.8	806.5	2 252.8	84.3	(NA)	(NA)
	New Mexico	-	6	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	New York	-	103	50	39.7	1 379.8	15.5	30.3	436.9	2 791.4	1 514.1	4 225.1	127.6	(NA)	(NA)
	North Carolina	-	13	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Ohio	E1	22	5	.8	20.2	.4	.9	8.6	38.1	21.3	63.8	(D)	(NA)	(NA)
	Oklahoma	-	11	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Oregon	E8	14	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Pennsylvania	-	42	17	5.4	149.0	2.7	5.5	61.7	281.5	372.2	629.8	19.0	(NA)	(NA)

See footnotes at end of table.

Table 2. Industry Group Statistics by State: 1987 and 1982—Con.

[Includes industry groups with 450 manufacturing employees or more. Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry group and geographic area	1987											1982	
		All establishments ²		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materials ⁴ (million dollars)	Value of shipments ⁴ (million dollars)	New capital expend- itures (million dollars)	All em- ployees ³ (1,000)	Value added by manu- facture (million dollars)
		E ¹	Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
38	Instruments and related products— Con.													
381	Search and navigation equipment—Con.													
	Rhode Island.....	-	8	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Texas.....	-	71	31	33.1	1 030.2	13.8	29.6	331.9	2 000.1	829.1	2 743.8	179.3	(NA)
	Utah.....	-	9	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Virginia.....	-	19	15	10.4	345.4	2.8	5.6	60.2	1 099.8	289.7	1 296.3	47.8	(NA)
	Wisconsin.....	-	10	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
382	Measuring and controlling devices ..	-	4 168	1 684	284.7	7 806.8	150.4	301.2	3 199.6	16 841.2	9 330.5	26 042.0	903.1	(NA)
	Alabama.....	E1	25	9	1.5	41.8	.7	1.3	15.0	98.1	52.5	146.7	(D)	(NA)
	Arizona.....	-	65	22	3.0	103.1	.8	1.5	15.7	218.2	102.6	313.0	8.3	(NA)
	Arkansas.....	-	11	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
	California.....	E1	918	379	51.5	1 509.7	26.7	55.0	616.7	3 442.9	1 833.0	5 239.2	199.8	(NA)
	Colorado.....	-	93	32	8.1	245.9	4.1	7.9	112.7	494.6	230.6	724.2	21.5	(NA)
	Connecticut.....	-	147	72	11.4	331.0	6.1	11.3	120.6	748.9	420.3	1 163.6	38.7	(NA)
	Delaware.....	-	8	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
	Florida.....	E1	133	45	7.0	167.9	4.5	9.0	82.9	365.9	196.3	554.8	20.0	(NA)
	Georgia.....	-	33	9	1.9	42.9	1.2	2.4	20.5	126.7	56.1	126.4	3.6	(NA)
	Illinois.....	-	190	94	14.9	386.7	8.2	15.7	161.3	847.3	483.2	1 320.4	32.9	(NA)
	Indiana.....	-	71	26	5.0	108.7	3.5	7.2	66.2	223.3	114.0	331.6	(D)	(NA)
	Iowa.....	-	21	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
	Kansas.....	E1	14	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
	Kentucky.....	-	8	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
	Maine.....	E1	7	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
	Maryland.....	E2	72	29	3.5	92.5	2.0	3.8	42.6	188.2	115.6	303.5	(D)	(NA)
	Massachusetts.....	-	288	135	24.5	740.2	11.5	23.9	257.1	1 655.7	785.8	2 383.7	77.1	(NA)
	Michigan.....	E1	158	62	5.6	141.1	3.2	6.5	63.4	314.8	185.1	492.5	20.5	(NA)
	Minnesota.....	-	83	32	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
	Missouri.....	-	38	13	1.9	47.2	1.0	2.0	19.4	108.1	58.7	165.4	3.1	(NA)
	Nebraska.....	-	12	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
	Nevada.....	E1	19	8	1.7	42.9	.9	1.7	15.3	53.4	47.2	100.9	5.8	(NA)
	New Hampshire.....	-	57	26	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
	New Jersey.....	E1	203	76	10.3	280.5	5.0	10.3	105.9	598.6	365.9	963.2	25.1	(NA)
	New Mexico.....	-	11	5	.5	13.2	.3	.7	6.3	40.1	20.4	59.9	(D)	(NA)
	New York.....	E1	279	116	18.0	543.8	9.1	18.6	209.1	834.5	613.0	1 453.7	45.5	(NA)
	North Carolina.....	-	52	16	3.9	95.3	2.4	5.3	47.0	207.8	114.8	317.8	12.5	(NA)
	Ohio.....	-	198	88	16.1	400.5	8.8	17.3	156.7	791.5	444.7	1 224.7	43.9	(NA)
	Oklahoma.....	E1	35	10	1.3	34.4	.7	1.3	13.4	58.8	39.3	102.5	(D)	(NA)
	Oregon.....	-	64	19	10.2	289.0	3.5	7.5	73.2	426.6	272.4	737.9	(D)	(NA)
	Pennsylvania.....	-	235	108	19.9	540.8	11.7	23.5	262.8	1 166.0	621.4	1 786.5	55.5	(NA)
	Rhode Island.....	E1	28	11	1.5	30.9	.8	1.7	11.5	70.8	35.5	107.8	3.1	(NA)
	South Carolina.....	-	19	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
	Tennessee.....	-	35	12	3.4	88.7	1.9	3.7	38.4	161.2	97.8	260.2	(D)	(NA)
	Texas.....	E1	244	85	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
	Vermont.....	-	13	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
	Virginia.....	E1	45	19	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
	Washington.....	-	92	27	8.7	252.3	4.2	8.7	105.6	635.9	395.5	1 029.6	31.6	(NA)
	West Virginia.....	E1	12	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
	Wisconsin.....	-	73	29	5.7	144.6	3.1	6.0	62.7	294.1	180.5	469.8	13.6	(NA)
384	Medical instruments and supplies	E1	3 441	1 309	204.2	5 027.1	123.9	247.1	2 267.1	14 749.3	8 255.5	22 865.3	748.2	189.2
	Alabama.....	E1	27	8	1.0	19.9	.8	1.7	13.8	61.7	43.2	97.8	(D)	1.3
	Arizona.....	E1	34	7	1.3	29.9	.8	1.6	13.0	123.6	49.5	176.7	3.4	.8
	Arkansas.....	-	10	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	8.3
	California.....	E1	612	232	34.0	937.8	17.8	35.0	327.8	2 755.8	1 328.7	4 051.1	132.5	23.1
	Colorado.....	E1	79	26	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.4
	Connecticut.....	-	95	47	7.8	176.4	4.8	10.2	93.3	743.0	404.6	1 135.0	38.5	5.9
	Delaware.....	-	7	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC
	Florida.....	E1	168	41	6.2	132.0	3.9	8.0	66.3	318.6	157.2	487.1	27.3	3.5
	Georgia.....	E1	65	28	3.5	79.1	2.4	4.9	39.9	199.1	147.2	350.7	7.8	2.0
	Illinois.....	E1	184	72	7.2	176.1	4.8	9.3	90.8	467.8	251.7	724.3	28.3	7.0
	Indiana.....	-	78	26	4.8	134.4	3.1	6.3	64.9	521.6	145.7	666.0	22.9	4.2
	Kansas.....	E7	19	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.4
	Kentucky.....	-	17	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE
	Maryland.....	E3	43	13	.9	19.9	.6	1.0	10.3	60.4	39.4	98.5	(D)	.7
	Massachusetts.....	E1	160	80	12.3	335.2	7.0	13.7	146.1	840.3	441.5	1 269.4	60.5	5.3
	Michigan.....	E1	90	31	3.8	101.0	2.0	3.9	38.8	295.9	157.8	451.2	13.6	2.8
	Minnesota.....	E1	118	56	7.9	196.1	4.6	9.0	78.6	506.5	218.8	714.5	(D)	3.6
	Mississippi.....	-	12	4	.5	7.8	.5	1.0	5.4	19.7	45.3	63.2	(D)	.4
	Missouri.....	-	68	36	4.5	108.9	2.7	5.3	47.7	281.9	142.4	419.9	11.0	3.0
	Nebraska.....	-	13	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF
	New Hampshire.....	E1	26	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC
	New Jersey.....	-	163	72	11.6	349.7	5.9	11.3	128.8	1 068.1	448.9	1 513.5	36.4	10.0
	New Mexico.....	-	9	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA
	New York.....	E1	276	94	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	12.2
	North Carolina.....	-	76	39	5.6	126.4	4.0	8.3	70.9	393.9	240.9	629.0	20.4	3.3
	Ohio.....	-	150	70	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5.2
	Oklahoma.....	E2	35	10	.9	17.1	.5	1.1	8.0	35.4	30.3	68.0	2.0	.4
	Oregon.....	-	63	12	1.9	50.0	1.2	2.2	20.4	163.1	67.7	227.7	(D)	EE
	Pennsylvania.....	E1	169	69	11.5	284.0	7.2	14.1	132.3	669.3	453.1	1 139.2	53.6	10.3
	Rhode Island.....	-	21	9	2.3	48.0	1.7	3.2	27.7	124.7	80.2	199.3	4.3	2.5

See footnotes at end of table.

Table 2. Industry Group Statistics by State: 1987 and 1982—Con.

[Includes industry groups with 450 manufacturing employees or more. Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes.]

1987 SIC code	Industry group and geographic area	1987											1982		
		All establishments ²		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materials ⁴ (million dollars)	Value of shipments ⁴ (million dollars)	New capital expend- itures (million dollars)	All em- ployees ³ (1,000)	Value added by manu- facture (million dollars)	
		E ¹	Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							Wages (million dollars)
38	Instruments and related products— Con.														
384	Medical instruments and supplies—Con.														
	South Carolina	-	26	16	4.1	74.8	3.1	6.1	46.0	176.1	196.7	371.2	14.5	3.4	118.5
	South Dakota	-	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Tennessee	-	49	22	4.3	89.9	2.9	5.8	47.8	362.0	201.8	551.0	9.7	2.1	127.4
	Texas	-	171	53	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6.5	389.4
	Utah	-	41	16	4.5	102.8	2.9	6.1	49.7	184.6	135.4	324.9	22.2	4.2	139.6
	Virginia	E2	39	13	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	36.6
	Washington	-	58	14	3.8	112.8	1.3	2.4	25.3	244.2	101.5	340.2	10.4	.8	37.2
	Wisconsin	-	76	34	7.4	191.2	4.5	8.9	96.1	869.2	542.3	1 393.1	35.4	2.9	112.4
385	Ophthalmic goods	E1	495	149	24.2	475.0	15.8	31.0	234.0	1 152.9	546.0	1 689.4	76.7	25.8	874.2
	Arizona	-	10	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	California	E1	74	16	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.1	102.4
	Florida	-	33	12	3.1	60.0	2.4	4.9	38.2	142.7	64.8	194.3	25.8	1.8	48.1
	Georgia	-	9	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	6.9
	Illinois	E1	30	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	21.6
	Maryland	-	8	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
	Massachusetts	-	27	13	2.6	57.4	1.6	3.2	26.8	140.8	71.3	210.5	(D)	FF	(D)
	Minnesota	-	9	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9	35.2
	New Jersey	E5	21	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9	22.0
	New York	-	56	23	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	Pennsylvania	E2	26	7	.5	7.7	.4	.7	5.2	20.3	10.3	29.7	.6	.4	10.8
	Rhode Island	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	32.0
	Virginia	-	10	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
386	Photographic equipment and supplies	-	787	279	88.0	2 878.3	44.8	92.1	1 224.3	12 908.0	6 233.5	19 240.5	681.0	119.3	10 859.5
	California	E3	147	46	4.5	118.0	2.5	5.4	51.9	311.3	314.1	621.5	23.8	5.2	314.5
	Colorado	-	12	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	Connecticut	E1	17	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	Illinois	E1	70	27	3.9	104.6	1.5	3.0	30.1	244.1	185.6	435.8	9.6	5.6	268.3
	Indiana	E1	10	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	Kansas	-	4	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
	Massachusetts	-	43	20	7.7	266.2	5.3	10.8	151.9	949.2	575.0	1 522.3	(D)	FF	(D)
	Michigan	E2	16	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8	45.2
	Minnesota	E1	15	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	New Jersey	-	68	24	4.7	133.4	2.8	5.6	67.2	404.0	324.0	727.1	16.3	5.0	173.6
	New York	-	108	44	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	North Carolina	-	9	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Ohio	E1	24	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	30.5
	Oklahoma	-	9	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Oregon	-	11	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	Pennsylvania	E1	31	10	2.2	66.2	1.1	2.5	29.2	325.7	106.4	430.8	15.8	1.6	192.1
	Texas	E5	27	8	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	Virginia	E5	21	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	18.3
	Wisconsin	E1	22	10	.8	19.3	.5	1.0	8.6	48.0	44.7	92.4	(D)	1.0	38.2
387	Watches, clocks, watchcases, and parts	-	218	74	11.8	222.9	9.0	17.8	139.4	584.6	637.6	1 220.9	24.3	16.8	483.5
	Arkansas	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	California	E5	30	9	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	9.8
	Connecticut	-	7	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Georgia	-	3	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	Illinois	-	18	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.4	29.3
	Michigan	-	12	5	1.4	29.1	1.0	2.1	18.9	70.5	58.4	124.4	1.5	.9	37.0
	New York	E1	35	15	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.8	57.1
	North Carolina	-	4	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	Pennsylvania	-	7	5	.7	13.6	.4	.8	5.5	21.3	28.8	49.8	.7	.5	19.2
	Tennessee	-	6	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	Wisconsin	E1	8	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
39	Miscellaneous manufacturing industries	E1	16 573	3 674	374.3	6 884.2	271.7	520.8	4 028.1	17 452.9	14 665.6	32 012.0	712.2	382.6	14 059.1
	Alabama	-	126	35	4.7	76.1	3.3	6.8	45.3	153.2	205.2	364.6	11.2	4.6	141.7
	Arizona	E1	215	29	3.3	67.1	2.5	5.4	42.4	196.7	114.4	310.3	16.6	2.7	93.2
	Arkansas	-	101	27	3.4	52.2	2.6	4.7	32.6	170.8	115.2	290.2	5.8	3.1	86.0
	California	E2	2 305	432	38.1	716.0	26.9	51.7	398.2	1 764.2	1 398.8	3 156.7	(D)	38.3	1 667.0
	Colorado	E1	242	36	3.8	61.4	2.6	5.0	35.2	144.5	90.9	227.9	7.5	4.1	129.1
	Connecticut	E1	291	69	9.2	205.2	6.3	12.3	110.1	524.6	358.1	870.0	21.1	10.6	428.1
	Florida	E3	852	105	8.9	147.6	6.4	12.6	83.1	330.1	324.6	655.6	9.7	8.5	234.0
	Georgia	-	239	56	7.2	124.9	5.8	12.6	84.9	353.4	268.6	624.2	13.3	6.2	216.4
	Hawaii	E8	83	8	.8	11.7	.6	1.0	6.6	31.1	30.4	61.4	1.0	.7	19.1
	Illinois	E1	752	226	23.9	489.9	17.2	34.1	275.2	1 156.0	1 127.9	2 263.7	(D)	27.8	1 092.9
	Indiana	E1	268	74	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	8.2	319.4
	Iowa	E1	131	29	3.8	71.3	2.5	4.8	38.8	193.6	143.5	334.9	10.0	5.9	184.8
	Kansas	E1	111	22	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	69.7
	Kentucky	-	119	33	4.6	72.9	3.6	6.5	47.9	404.0	186.7	575.5	10.1	FF	(D)
	Louisiana	E4	120	19	1.4	19.5	1.0	1.8	12.1	49.7	35.9	84.2	1.1	1.5	32.8
	Maine	E2	84	14	1.1	15.2	.9	1.6	9.6	34.6	33.2	67.7	1.2	.8	12.7
	Maryland	E2	206	42	3.5	62.2	2.6	4.8	36.7	121.4	98.1	214.6	(D)	2.8	93.8
	Massachusetts	E1	529	148	20.3	415.1	13.8	27.9	231.4	1 198.3	814.4	2 018.2	36.5	22.2	877.9
	Michigan	E1	500	90	7.7	157.7	5.3	10.3	86.8	412.8	284.6	697.7	(D)	8.3	269.0
	Minnesota	E1	287	59	5.4	91.8	3.9	7.4	56.1	206.6	172.1	376.6	12.7	6.0	231.6

See footnotes at end of table.

Table 2. Industry Group Statistics by State: 1987 and 1982—Con.

[Includes industry groups with 450 manufacturing employees or more. Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes.]

1987 SIC code	Industry group and geographic area	1987											1982		
		All establishments ²		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materials ⁴ (million dollars)	Value of shipments ⁴ (million dollars)	New capital expend- itures (million dollars)	All em- ployees ³ (1,000)	Value added by manu- facture (million dollars)	
		E ¹	Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							Wages (million dollars)
39	Miscellaneous manufacturing industries—Con.														
	Mississippi	-	80	20	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	Missouri	E1	289	72	5.8	91.2	4.3	7.9	54.8	203.9	166.4	365.1	10.6	5.4	143.1
	Montana	E2	51	7	.7	9.9	.6	1.2	7.1	20.2	19.2	39.9	.9	.4	10.4
	Nebraska	E2	86	18	1.0	14.8	.7	1.4	8.6	29.9	20.6	50.5	.8	1.3	31.2
	Nevada	E2	76	21	2.0	45.4	1.3	2.5	22.7	67.4	61.7	129.2	7.9	1.7	61.4
	New Hampshire	E2	105	17	2.1	37.2	1.5	2.9	20.6	92.4	55.5	149.1	4.4	1.7	49.5
	New Jersey	E1	633	214	19.4	383.5	13.9	27.1	211.3	953.8	934.1	1 883.3	40.0	23.9	931.6
	New Mexico	E5	131	17	1.2	14.9	.9	1.6	9.5	31.7	29.6	61.3	1.3	1.2	24.1
	New York	E2	2 337	549	49.7	916.8	37.1	69.1	554.3	2 157.5	2 439.3	4 534.8	70.2	57.0	1 976.1
	North Carolina	E1	304	78	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	7.2	187.1
	Ohio	E1	536	148	13.5	268.0	9.7	18.6	153.6	744.8	549.7	1 307.0	36.0	13.4	607.6
	Oklahoma	E2	135	20	2.2	37.2	1.6	3.1	21.3	104.9	85.5	190.9	2.8	2.3	70.7
	Oregon	E2	255	35	3.5	60.3	2.5	4.5	33.1	149.3	101.2	249.1	8.3	2.2	72.6
	Pennsylvania	-	608	158	20.1	416.4	15.3	29.2	272.3	1 185.6	926.1	2 112.0	56.1	19.6	773.1
	Rhode Island	E1	863	237	26.6	412.6	19.0	35.1	238.7	986.7	885.0	1 876.9	27.0	25.9	858.5
	South Carolina	E1	130	25	3.7	57.8	2.7	5.0	35.9	142.9	139.9	286.4	10.5	4.1	102.6
	South Dakota	-	41	16	1.4	22.2	1.0	2.1	12.9	50.2	56.6	105.2	2.7	.7	21.6
	Tennessee	-	290	77	11.5	198.3	8.5	16.2	116.3	548.9	448.0	1 002.3	31.9	10.1	343.1
	Texas	E2	823	146	13.7	243.3	9.7	18.5	136.2	592.7	423.4	1 005.8	22.4	13.5	696.2
	Utah	E1	112	15	2.6	41.3	1.9	3.4	25.6	75.0	107.6	180.8	2.5	2.1	46.8
	Vermont	E4	77	11	.6	9.5	.5	.8	5.9	24.5	18.4	43.2	(D)	.6	15.8
	Virginia	E1	180	45	5.4	84.7	4.4	7.8	58.7	187.4	152.6	340.9	7.5	3.1	96.6
	Washington	E2	365	56	4.9	88.5	3.4	6.1	48.7	198.8	153.2	352.2	8.5	3.8	119.1
	West Virginia	E1	37	9	.6	10.0	.5	.8	6.2	20.3	16.1	36.0	.8	.6	13.0
	Wisconsin	E1	314	93	8.3	159.8	5.9	11.0	83.0	378.3	293.5	670.8	14.3	9.8	358.7
391	Jewelry, silverware, and plated ware	E2	2 975	494	49.5	941.0	35.1	68.4	532.5	2 371.6	3 235.1	5 554.0	59.4	50.2	1 784.4
	California	E2	360	40	3.7	71.2	2.6	5.0	39.3	195.5	232.8	421.3	(D)	3.4	123.6
	Connecticut	E5	30	6	.5	13.0	.3	.7	6.8	24.8	36.0	59.7	.4	1.1	51.7
	Florida	E3	167	18	1.8	34.1	1.4	3.2	19.0	78.5	146.4	225.7	.8	1.2	37.3
	Illinois	E2	61	11	1.3	25.6	.9	1.7	13.0	61.7	79.0	140.7	(D)	1.2	46.3
	Indiana	E1	21	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	22.5
	Massachusetts	-	111	39	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6.7	221.3
	Minnesota	-	20	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	New Jersey	E2	95	34	3.0	55.6	2.2	4.4	34.6	125.9	198.6	323.7	4.1	2.7	94.0
	New Mexico	E3	62	10	.7	7.5	.5	.9	5.0	17.2	18.4	35.4	.5	.5	11.3
	New York	E2	902	166	14.8	316.4	10.3	19.7	178.4	861.8	1 353.2	2 168.6	24.1	15.3	582.3
	Ohio	E2	50	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	16.0
	Pennsylvania	E3	66	8	.8	15.7	.6	1.2	9.2	31.2	60.5	95.8	.5	.7	26.6
	Rhode Island	E3	378	84	8.5	139.4	6.3	12.2	80.3	314.4	392.8	712.5	10.5	9.2	315.1
	South Dakota	-	11	8	.7	10.6	.6	1.2	7.7	29.1	37.7	65.3	.9	.3	11.9
	Texas	E1	113	15	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.2	103.9
	Utah	-	14	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
393	Musical Instruments	E1	423	104	12.2	218.1	9.6	18.5	145.9	501.9	318.9	814.1	13.9	17.8	494.8
	Arkansas	-	6	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	California	E1	69	15	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.9	52.8
	Illinois	E4	29	8	.5	9.3	.4	.8	6.4	20.2	11.5	32.6	.3	2.3	57.1
	Indiana	-	23	11	1.5	28.6	1.2	2.2	22.5	64.2	38.3	104.6	1.9	2.2	89.2
	Mississippi	-	4	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	New York	E1	42	13	1.3	24.3	1.0	1.9	14.8	40.6	31.4	72.7	1.5	1.6	41.7
	Ohio	E1	15	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	25.8
	Pennsylvania	-	19	7	1.1	21.8	.7	1.4	11.8	51.1	32.0	83.5	1.8	.8	24.8
	Wisconsin	-	16	5	.5	7.5	.3	.6	4.1	22.4	11.0	33.1	.7	BB	(D)
394	Toys and sporting goods	E1	2 713	740	88.9	1 512.4	67.0	126.2	920.7	4 861.6	4 008.1	8 798.3	231.8	98.9	4 610.1
	Alabama	-	33	10	2.0	30.5	1.4	2.9	19.6	54.6	95.0	154.8	3.1	2.5	82.8
	Arizona	-	30	6	1.5	35.5	1.2	2.9	23.9	126.2	69.9	195.8	(D)	1.1	53.1
	Arkansas	-	35	15	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.7	49.7
	California	E1	437	110	9.7	155.0	6.7	12.4	81.9	493.0	458.8	943.8	18.1	12.2	711.9
	Colorado	-	49	11	1.4	23.4	.9	1.8	13.0	66.1	39.4	97.9	3.2	1.8	74.2
	Connecticut	-	52	17	2.5	47.6	1.6	2.9	23.0	129.0	126.8	253.4	7.5	1.6	60.4
	Florida	E2	128	16	1.5	20.8	1.1	2.0	11.9	49.3	41.6	90.4	2.4	2.1	49.9
	Georgia	E1	44	13	1.1	15.9	.8	1.6	11.1	77.1	58.7	127.8	1.1	1.6	43.0
	Illinois	-	131	45	5.8	106.4	4.3	8.9	58.9	301.0	339.6	629.3	21.4	6.4	250.0
	Indiana	-	49	16	1.9	33.3	1.5	2.8	21.4	117.9	94.8	210.7	4.6	1.4	49.8
	Iowa	E1	27	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.0	71.1
	Kentucky	-	26	11	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Maine	E2	19	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	7.1
	Maryland	E1	37	7	.6	8.0	.5	.9	4.4	24.3	24.6	46.3	(D)	.6	29.3
	Massachusetts	-	74	22	5.7	132.2	3.9	8.2	75.5	535.5	266.1	800.2	17.1	6.3	385.5
	Michigan	E1	104	24	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.1	105.3
	Minnesota	E1	85	24	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.1	137.9
	Mississippi	-	28	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	52.1
	Missouri	E1	78	21	1.4	19.1	1.1	2.0	12.3	57.0	50.0	106.3	(D)	1.5	37.2
	New Hampshire	E3	18	3	.5	6.8	.4	.6	3.3	12.5	5.4	17.7	.7	.5	9.4
	New Jersey	-	79	34	3.7	65.8	2.5	4.7	32.8	225.5	277.9	499.5	11.8	7.1	297.9
	New York	E1	187	59	7.9	122.3	6.6	11.3	86.9	334.6	303.6	622.1	11.5	13.1	616.4
	North Carolina	E1	50	11	1.5	23.4	1.2	2.4	16.2	48.3	91.1	144.4	(D)	1.0	38.4
	Ohio	-	89	25	3.6	67.8	2.7	5.2	40.7	289.4	228.4	525.2	22.1	4.5	322.9
	Oklahoma	E1	31	10	.8	14.1	.6	1.3	8.7	62.2	49.2	111.1	1.8	.9	40.6
	Oregon	E2	83	16	1.8	28.3	1.3	2.3	16.6	86.3	52.5	138.6	6.1	.7	33.7
	Pennsylvania	-	106	37	4.9	86.9	3.8	7.2	56.2	261.1	243.8	502.6	7.1	3.7	159.0
	Rhode Island	-	13	5	1.1	20.1	.9	1.6	12.9	8.5	42.5	50.5	(D)	EE	(D)
	South Carolina	-	19	6	1.3	19.4	1.0	1.8	12.7	60.1	63.1	125.9	5.1	1.7	39.1
	Tennessee	E1	54	16	2.6	47.2	2.0	3.6	26.1	118.4	83.8	204.6	(D)	2.3	72.7

See footnotes at end of table.

Table 2. Industry Group Statistics by State: 1987 and 1982—Con.

[Includes industry groups with 450 manufacturing employees or more. Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry group and geographic area	1987											1982		
		All establishments ²		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materials ⁴ (million dollars)	Value of shipments ⁴ (million dollars)	New capital expend- itures (million dollars)	All em- ployees ³ (1,000)	Value added by manu- facture (million dollars)	
		E ¹	Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							Wages (million dollars)
39	Miscellaneous manufacturing industries—Con.														
394	Toys and sporting goods—Con.														
	Texas	E1	117	29	3.4	50.5	2.6	4.8	31.2	148.3	117.8	258.8	6.0	3.1	367.5
	Utah	E1	25	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	9.3
	Virginia	-	29	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	27.0
	Washington	E1	98	22	2.2	36.6	1.6	3.0	24.0	106.6	85.2	191.1	5.2	1.5	58.4
	Wisconsin	E1	76	23	1.6	26.5	1.2	2.4	16.9	77.4	74.4	152.2	3.4	2.2	65.6
395	Pens, pencils, office, and art supplies	-	1 016	249	28.8	540.3	20.7	40.9	319.3	1 432.1	1 093.7	2 535.9	70.9	32.2	1 262.8
	California	-	155	30	4.4	97.5	3.1	6.8	60.3	238.3	176.4	426.4	(D)	4.0	212.0
	Colorado	E1	20	3	.8	11.2	.6	1.2	7.9	24.8	19.9	45.8	2.4	CC	(D)
	Connecticut	-	21	6	.6	14.8	.4	.7	5.5	30.0	18.5	50.4	.6	.8	21.9
	Florida	E1	55	3	.5	10.9	.4	.7	4.9	32.1	18.6	50.0	1.3	.6	16.1
	Georgia	-	20	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	34.0
	Illinois	-	73	24	2.2	47.0	1.5	3.0	26.3	128.0	123.8	252.5	3.7	2.1	91.5
	Kentucky	-	8	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
	Missouri	-	15	6	1.0	16.1	.7	1.4	9.9	34.4	32.6	64.1	(D)	.7	15.4
	New Jersey	-	68	26	2.3	42.8	1.8	3.6	24.7	103.0	94.1	192.7	4.3	4.1	221.7
	New York	E1	100	32	2.6	43.3	1.9	3.6	23.7	83.1	72.1	157.4	3.9	3.7	101.6
	Ohio	E1	42	16	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	20.7
	Pennsylvania	-	49	17	2.1	37.3	1.7	3.2	25.1	125.1	85.7	208.1	6.1	2.2	82.7
	Rhode Island	-	11	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	South Carolina	-	13	4	.6	8.7	.4	.9	5.6	15.6	15.5	31.8	(D)	BB	(D)
	Tennessee	-	29	12	3.0	51.0	2.1	4.4	29.8	164.3	153.0	320.4	10.7	2.2	74.7
	Texas	E2	55	8	.7	9.9	.5	1.0	6.4	28.1	16.7	44.5	(D)	.7	18.5
	Wisconsin	-	15	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.5	54.7
396	Costume jewelry and notions	E1	1 022	294	31.8	498.2	22.5	43.4	285.8	1 241.3	820.2	2 061.9	31.8	(NA)	(NA)
	California	E1	98	16	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Connecticut	-	31	14	2.3	46.7	1.7	3.3	27.3	95.4	65.0	156.9	4.6	(NA)	(NA)
	Georgia	-	9	6	1.5	25.2	1.3	2.7	20.2	82.1	59.4	142.3	(D)	(NA)	(NA)
	Illinois	E1	32	8	.7	10.8	.6	.9	6.2	25.8	16.4	41.6	1.2	(NA)	(NA)
	Massachusetts	-	45	15	3.3	55.9	1.6	3.9	24.0	135.2	73.2	211.1	(D)	(NA)	(NA)
	New Jersey	-	28	12	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	New York	E2	236	64	4.0	61.9	3.1	6.1	38.1	135.7	102.3	237.5	2.0	(NA)	(NA)
	North Carolina	-	11	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Pennsylvania	E1	16	4	.6	10.7	.5	.8	7.6	23.2	12.2	35.2	(D)	(NA)	(NA)
	Rhode Island	-	314	112	12.7	180.9	8.6	15.7	101.1	482.5	327.8	814.1	8.2	(NA)	(NA)
399	Miscellaneous manufactures	E2	8 424	1 793	163.3	3 174.1	116.8	223.3	1 824.0	7 044.4	5 189.8	12 247.7	304.4	141.7	4 750.6
	Alabama	E1	78	24	2.5	44.2	1.9	3.8	24.9	94.8	105.3	201.2	8.0	1.5	49.0
	Arizona	E4	118	22	1.4	25.0	1.0	1.8	13.8	49.8	33.7	83.5	(D)	.9	24.9
	Arkansas	E2	47	10	.8	11.8	.5	.9	6.0	24.5	15.8	40.7	.5	CC	(D)
	California	E3	1 186	221	17.1	340.8	12.1	23.0	188.5	705.9	464.0	1 170.2	19.1	14.7	513.0
	Colorado	E3	125	16	1.2	21.6	.8	1.6	11.0	42.1	23.8	65.6	1.6	1.2	27.8
	Connecticut	E1	149	22	3.0	77.2	2.0	4.1	42.8	235.9	105.3	334.3	8.0	2.5	155.2
	Florida	E4	466	64	4.7	78.2	3.4	6.4	45.2	160.8	112.1	274.3	5.0	4.2	116.8
	Georgia	E1	155	27	3.7	65.6	3.0	7.0	44.0	151.9	95.6	256.1	3.3	1.4	34.7
	Illinois	E1	426	130	13.4	290.8	9.6	18.8	164.4	619.3	557.5	1 167.1	24.7	15.2	628.4
	Indiana	E1	159	38	4.2	80.2	3.1	6.3	51.7	214.2	147.0	363.6	16.8	3.4	139.5
	Iowa	E1	79	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.2	59.3
	Kansas	E1	66	15	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	13.0
	Kentucky	-	74	19	1.9	28.1	1.4	2.6	17.9	99.1	54.9	155.1	3.0	EE	(D)
	Louisiana	E3	72	9	.7	10.4	.5	.9	6.2	26.2	18.9	43.7	.5	.9	17.5
	Maryland	E3	128	28	2.2	41.0	1.6	3.0	24.7	71.0	56.3	126.7	(D)	1.4	37.9
	Massachusetts	E2	238	61	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5.5	154.9
	Michigan	E2	304	50	4.2	92.7	2.8	5.5	46.7	183.3	126.0	311.9	(D)	3.6	117.3
	Minnesota	E2	155	31	2.6	48.2	1.8	3.5	28.3	91.3	68.2	159.2	4.6	2.3	68.8
	Mississippi	-	38	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Missouri	E2	173	44	3.2	52.9	2.3	4.2	30.7	106.6	80.2	185.0	2.4	2.6	73.6
	Nebraska	E2	55	13	.7	9.9	.5	.9	6.0	18.7	13.3	32.2	.5	.4	8.1
	Nevada	E1	43	13	1.6	38.1	.9	1.8	18.0	49.7	45.5	95.6	7.4	1.3	52.5
	New Hampshire	E2	60	12	1.4	26.3	1.0	2.1	15.1	71.2	37.9	110.8	3.2	1.0	35.8
	New Jersey	E1	348	106	9.3	195.5	6.5	12.8	108.7	458.0	332.1	795.1	18.6	7.3	253.6
	New York	E3	870	215	19.2	348.7	14.3	26.4	212.3	701.8	576.7	1 276.6	27.3	17.1	490.5
	North Carolina	E1	189	52	4.5	78.0	3.2	6.0	42.9	163.8	140.4	308.0	(D)	4.2	105.0
	Ohio	E1	335	92	7.7	158.8	5.4	10.3	86.1	358.9	249.7	615.4	(D)	6.5	218.4
	Oklahoma	E3	78	7	.9	15.8	.6	1.2	8.6	28.5	23.1	51.7	.5	.8	20.3
	Oregon	E3	108	15	1.2	21.9	.9	1.6	12.0	41.6	33.1	74.0	1.5	.9	24.0
	Pennsylvania	-	352	85	10.7	243.9	8.0	15.3	162.3	693.8	491.9	1 186.9	40.1	11.2	456.1
	Rhode Island	E3	146	30	2.5	36.9	1.8	3.2	19.6	70.3	61.6	131.7	1.7	1.4	30.3
	South Carolina	E3	87	12	1.4	23.0	1.0	1.8	14.5	48.6	39.7	87.9	(D)	1.0	25.0
	South Dakota	E1	16	5	.5	8.9	.3	.7	4.0	16.4	14.4	30.8	(D)	.2	6.4
	Tennessee	E1	182	42	5.2	89.5	3.9	7.2	53.5	232.3	184.8	420.0	12.9	4.4	163.8
	Texas	E2	503	89	7.2	134.7	4.9	9.5	73.6	281.7	200.0	481.7	11.0	7.0	191.9
	Utah	E2	60	8	.9	15.4	.6	1.1	9.3	29.5	15.0	44.2	1.1	CC	(D)
	Virginia	E1	108	30	2.5	50.6	1.9	3.5	31.7	110.0	84.0	193.7	5.5	1.6	47.1
	Washington	E3	178	25	2.1	40.0	1.3	2.2	17.8	69.2	49.5	119.0	2.9	1.7	42.9
	Wisconsin	E1	186	56	5.0	100.2	3.6	6.6	49.5	223.6	181.5	403.2	9.0	5.3	219.9

See footnotes at end of table.

Table 2. Industry Group Statistics by State: 1987 and 1982—Con.

[Includes industry groups with 450 manufacturing employees or more. Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry group and geographic area	1987											1982		
		E ¹	All establishments ²		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materials ⁴ (million dollars)	Value of shipments ⁴ (million dollars)	New capital expend- itures (million dollars)	All em- ployees ³ (1,000)	Value added by manu- facture (million dollars)
			Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
39	Miscellaneous manufacturing industries—Con.														
--	Auxiliaries-----	-	9 952	5 480	1 233.6	47 201.7	-	-	-	-	-	-	-	1 276.0	-
	Alabama-----	-	100	55	6.6	175.1	-	-	-	-	-	-	-	5.0	-
	Arizona-----	-	78	36	6.7	226.9	-	-	-	-	-	-	-	4.0	-
	Arkansa-----	-	67	29	3.5	86.2	-	-	-	-	-	-	-	3.7	-
	California-----	-	1 061	502	93.2	4 048.2	-	-	-	-	-	-	-	98.5	-
	Colorado-----	-	127	47	7.0	230.7	-	-	-	-	-	-	-	13.7	-
	Connecticut-----	-	257	177	37.5	1 622.6	-	-	-	-	-	-	-	43.3	-
	Delaware-----	-	47	27	22.6	961.1	-	-	-	-	-	-	-	24.1	-
	District of Columbia-----	-	79	20	1.3	64.1	-	-	-	-	-	-	-	1.6	-
	Florida-----	-	272	105	14.4	467.0	-	-	-	-	-	-	-	14.4	-
	Georgia-----	-	367	194	30.5	976.3	-	-	-	-	-	-	-	22.8	-
	Hawaii-----	-	23	10	.5	18.3	-	-	-	-	-	-	-	.7	-
	Idaho-----	-	29	14	2.6	99.6	-	-	-	-	-	-	-	2.7	-
	Illinois-----	-	730	434	93.3	3 519.7	-	-	-	-	-	-	-	100.2	-
	Indiana-----	-	204	111	14.4	514.3	-	-	-	-	-	-	-	14.8	-
	Iowa-----	-	81	36	3.5	110.1	-	-	-	-	-	-	-	3.7	-
	Kansas-----	-	95	39	5.5	163.1	-	-	-	-	-	-	-	5.4	-
	Kentucky-----	-	102	58	10.2	348.4	-	-	-	-	-	-	-	14.4	-
	Louisiana-----	-	99	44	5.5	195.9	-	-	-	-	-	-	-	4.3	-
	Maine-----	-	27	15	1.6	41.7	-	-	-	-	-	-	-	.9	-
	Maryland-----	-	113	70	13.8	451.2	-	-	-	-	-	-	-	15.5	-
	Massachusetts-----	-	330	175	39.7	1 357.1	-	-	-	-	-	-	-	47.3	-
	Michigan-----	-	457	289	125.7	5 405.9	-	-	-	-	-	-	-	115.4	-
	Minnesota-----	-	219	136	43.0	1 696.6	-	-	-	-	-	-	-	40.6	-
	Mississippi-----	-	56	24	3.1	51.7	-	-	-	-	-	-	-	2.0	-
	Missouri-----	-	247	148	33.5	1 299.0	-	-	-	-	-	-	-	31.6	-
	Nebraska-----	-	45	20	3.7	112.6	-	-	-	-	-	-	-	3.0	-
	New Hampshire-----	-	40	22	3.5	121.3	-	-	-	-	-	-	-	2.3	-
	New Jersey-----	-	567	380	99.7	3 729.1	-	-	-	-	-	-	-	102.8	-
	New York-----	-	801	450	129.6	5 191.3	-	-	-	-	-	-	-	133.2	-
	North Carolina-----	-	267	157	34.3	1 050.5	-	-	-	-	-	-	-	27.0	-
	Ohio-----	-	548	354	95.8	3 657.5	-	-	-	-	-	-	-	105.0	-
	Oklahoma-----	-	65	27	5.2	222.7	-	-	-	-	-	-	-	25.0	-
	Oregon-----	-	96	48	6.5	216.7	-	-	-	-	-	-	-	6.4	-
	Pennsylvania-----	-	543	341	80.9	3 105.3	-	-	-	-	-	-	-	97.4	-
	Rhode Island-----	-	32	21	4.2	145.8	-	-	-	-	-	-	-	1.7	-
	South Carolina-----	-	135	87	10.9	339.6	-	-	-	-	-	-	-	12.2	-
	Tennessee-----	-	163	102	12.6	389.2	-	-	-	-	-	-	-	11.3	-
	Texas-----	-	673	332	50.9	1 989.2	-	-	-	-	-	-	-	56.2	-
	Utah-----	-	37	15	3.2	114.2	-	-	-	-	-	-	-	1.1	-
	Virginia-----	-	196	99	18.9	731.1	-	-	-	-	-	-	-	11.5	-
	Washington-----	-	140	72	17.3	680.2	-	-	-	-	-	-	-	14.6	-
	West Virginia-----	-	31	10	4.8	180.9	-	-	-	-	-	-	-	4.7	-
	Wisconsin-----	-	214	132	30.9	1 057.2	-	-	-	-	-	-	-	28.6	-

¹Payroll and sales data for some single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other Government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown for those employment-size classes where estimated data based on administrative-record data account for 10 percent or more of figures shown: E1-10 to 19 percent; E2-20 to 29 percent; E3-30 to 39 percent; E4-40 to 49 percent; E5-50 to 59 percent; E6-60 to 69 percent; E7-70 to 79 percent; E8-80 to 89 percent; E9-90 percent or more.

²Includes establishments with payroll at any time during year.

³Statistics for some industry groups are withheld to avoid disclosing data for individual companies. However, for such industry groups with 450 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: AA-150 to 249 employees; BB-250 to 499 employees; CC-500 to 999 employees; EE-1,000 to 2,499 employees; FF-2,500 employees or more.

⁴Aggregate of cost of materials and value of shipments includes extensive duplication, since products of some industries are used as materials by others (see appendixes).

Table 3a. Summary Statistics by Major Group: 1987

[Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	All industries ¹	Food and kindred products (SIC 20)	Tobacco products (SIC 21)	Textile mill products (SIC 22)	Apparel and other textile products (SIC 23)	Lumber and wood products (SIC 24)	Furniture and fixtures (SIC 25)
Companies ² ----- number--	310 341	15 692	98	4 982	21 301	32 014	10 775
All establishments ³ -----do--	368 897	20 583	137	6 065	23 168	33 987	11 636
With 1 to 19 employees-----do--	242 603	10 895	54	2 652	13 648	26 617	7 564
With 20 to 99 employees-----do--	89 291	6 068	33	1 836	6 755	5 862	2 882
With 100 employees or more-----do--	37 003	3 620	50	1 577	2 765	1 508	1 190
Employment and labor costs:							
Employees----- 1,000--	18 950.3	1 448.8	44.7	672.0	1 080.6	698.4	510.8
Compensation----- mil dol--	575 405.3	37 739.2	1 905.3	13 563.8	16 615.7	15 525.6	11 029.7
Annual payroll-----do--	475 651.0	30 267.5	1 485.6	11 409.6	13 903.6	12 706.5	9 082.1
Fringe benefits-----do--	99 754.7	7 471.8	419.7	2 154.2	2 712.1	2 819.1	1 947.6
Social Security and other legally required payments-----do--	41 153.6	3 279.2	126.5	1 099.4	1 368.9	1 512.9	906.9
Employer payments and other programs-----do--	58 601.1	4 192.6	293.2	1 054.8	1 343.2	1 306.2	1 040.7

See footnotes at end of table.

Table 3a. Summary Statistics by Major Group: 1987—Con.

[Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	All industries ¹	Food and kindred products (SIC 20)	Tobacco products (SIC 21)	Textile mill products (SIC 22)	Apparel and other textile products (SIC 23)	Lumber and wood products (SIC 24)	Furniture and fixtures (SIC 25)
Production workers:							
Average for year.....1,000.....	12 242.7	1 029.1	32.7	575.1	911.5	581.3	409.8
March.....do.....	12 132.2	985.7	32.6	570.1	908.7	567.1	406.3
May.....do.....	12 182.5	997.0	31.4	573.6	909.1	580.8	407.5
August.....do.....	12 304.2	1 097.2	32.4	577.6	911.5	593.7	408.8
November.....do.....	12 352.8	1 036.6	34.2	578.9	916.7	583.7	416.5
Hours.....millions.....	24 300.6	2 019.2	61.3	1 175.6	1 615.5	1 151.2	804.8
January to March.....do.....	5 958.8	474.5	14.9	288.9	386.9	276.3	196.0
April to June.....do.....	6 081.9	490.3	14.6	297.4	407.4	290.2	201.0
July to September.....do.....	6 080.5	538.5	15.1	292.9	401.2	296.0	199.8
October to December.....do.....	6 179.3	515.8	16.7	296.3	410.0	288.7	208.1
Wages.....mil dol.....	251 432.6	18 899.2	1 010.5	8 728.4	9 879.2	9 523.7	6 253.1
Value added by manufacture ⁴.....do.....	1 165 746.8	121 602.9	14 263.8	25 660.1	32 515.6	28 664.6	20 310.4
Cost of materials ⁵.....do.....	1 319 803.1	208 755.1	6 490.7	37 565.5	32 005.5	41 258.8	17 324.0
Materials, parts, containers, etc., consumed.....do.....	1 159 157.1	185 413.2	5 847.8	33 766.7	24 659.0	36 437.9	15 587.0
Resales.....do.....	65 504.7	17 935.4	498.3	743.5	1 389.6	1 607.4	999.3
Fuels.....do.....	20 879.2	2 087.0	56.1	607.2	134.8	440.2	138.7
Purchased electricity.....do.....	31 661.2	2 584.0	74.4	1 395.0	386.4	961.8	324.9
Contract work.....do.....	42 601.6	736.2	14.0	1 053.1	5 425.7	1 811.5	274.2
Quantity of electric energy used for heat and power:							
Purchased.....mil kWh.....	697 232.7	50 001.2	1 526.8	29 624.5	6 595.2	20 763.0	5 712.8
Generated less sold.....do.....	79 255.0	2 899.5	147.1	300.3	(S)	879.7	(S)
Total value of shipments.....mil dol.....	2 475 901.0	329 725.4	20 757.1	62 786.4	64 242.6	69 746.7	37 461.9
Primary products.....do.....	2 167 235.5	286 289.0	19 773.0	(D)	53 535.4	63 886.4	33 441.5
Secondary products.....do.....	182 438.6	19 648.3	393.8	(D)	8 208.9	3 151.3	2 519.8
Miscellaneous receipts, total.....do.....	126 226.9	23 788.1	590.3	1 504.5	2 498.3	2 709.0	1 500.6
Value of resales.....do.....	87 259.1	22 315.6	531.1	858.2	1 902.9	1 933.7	1 278.0
Contract receipts.....do.....	16 884.4	826.2	22.9	522.7	538.5	248.3	80.2
Other miscellaneous receipts.....do.....	22 083.4	646.3	36.3	123.6	56.9	527.0	142.4
Item	Paper and allied products (SIC 26)	Printing and publishing (SIC 27)	Chemicals and allied products (SIC 28)	Petroleum and coal products (SIC 29)	Rubber and miscellaneous plastics products (SIC 30)	Leather and leather products (SIC 31)	Stone, clay, and glass products (SIC 32)
Companies ².....number.....	4 215	57 376	8 313	1 320	12 149	1 965	12 682
All establishments ³.....do.....	6 292	61 791	12 039	2 232	14 589	2 198	16 191
With 1 to 19 employees.....do.....	2 148	49 175	7 144	1 479	7 287	1 283	11 057
With 20 to 99 employees.....do.....	2 451	9 986	3 383	524	5 255	571	4 096
With 100 employees or more.....do.....	1 693	2 630	1 512	229	2 047	344	1 038
Employment and labor costs:							
Employees.....1,000.....	611.3	1 494.0	814.0	115.9	831.4	129.0	523.7
Compensation.....mil dol.....	20 612.0	39 946.8	30 556.9	4 881.0	21 910.0	2 203.4	15 313.1
Annual payroll.....do.....	16 859.8	33 440.0	25 016.3	3 996.2	17 581.4	1 830.6	12 349.1
Fringe benefits.....do.....	3 752.2	6 507.3	5 540.5	884.9	4 328.6	373.2	2 964.0
Social Security and other legally required payments.....do.....	1 625.0	2 816.5	2 174.3	354.2	1 810.0	206.5	1 315.4
Employer payments and other programs.....do.....	2 127.2	3 690.8	3 366.3	530.6	2 518.6	166.7	1 648.6
Production workers:							
Average for year.....1,000.....	465.7	797.1	462.9	76.4	643.5	109.0	404.8
March.....do.....	461.7	793.6	462.5	74.6	636.9	105.2	396.4
May.....do.....	464.9	795.0	463.4	76.9	640.5	109.3	405.8
August.....do.....	469.0	795.7	461.6	78.2	644.5	111.0	411.0
November.....do.....	467.2	804.1	464.2	76.2	652.2	111.4	406.3
Hours.....millions.....	972.1	1 537.6	944.7	158.0	1 283.4	205.9	832.6
January to March.....do.....	239.1	378.4	232.5	37.9	313.2	48.3	200.0
April to June.....do.....	242.8	381.7	237.2	39.8	321.4	52.1	209.7
July to September.....do.....	243.4	385.2	236.6	40.7	320.7	51.7	211.8
October to December.....do.....	246.8	392.3	238.5	39.6	328.1	53.8	211.1
Wages.....mil dol.....	11 776.2	15 658.9	12 312.5	2 458.7	11 697.2	1 301.5	8 794.8
Value added by manufacture ⁴.....do.....	50 488.8	90 162.2	120 777.6	18 518.3	44 436.8	4 377.9	33 383.1
Cost of materials ⁵.....do.....	58 753.1	46 371.9	109 231.1	112 776.8	42 516.5	4 755.0	28 142.8
Materials, parts, containers, etc., consumed.....do.....	51 662.5	33 901.4	91 576.6	105 658.3	38 050.8	4 199.6	22 034.0
Resales.....do.....	1 355.2	1 438.2	6 083.1	2 899.6	1 479.8	344.0	1 942.8
Fuels.....do.....	2 574.6	272.7	4 135.0	2 003.6	514.2	36.1	2 071.0
Purchased electricity.....do.....	2 403.1	889.1	4 765.1	1 523.9	1 708.9	63.3	1 549.3
Contract work.....do.....	757.8	9 870.3	2 671.2	691.3	762.8	112.0	545.7
Quantity of electric energy used for heat and power:							
Purchased.....mil kWh.....	59 247.6	15 746.0	124 283.3	33 445.8	33 080.0	1 025.1	33 311.5
Generated less sold.....do.....	37 757.7	(S)	21 958.5	6 686.0	66.0	4.9	479.9
Total value of shipments.....mil dol.....	108 988.7	136 195.6	229 546.1	130 414.0	86 634.3	9 082.4	61 476.6
Primary products.....do.....	97 825.0	124 224.9	(D)	125 085.2	78 394.4	8 030.0	(D)
Secondary products.....do.....	8 546.9	7 587.4	(D)	1 456.7	5 791.4	519.8	(D)
Miscellaneous receipts, total.....do.....	2 616.8	4 383.3	(D)	3 872.0	2 448.5	532.6	3 048.4
Value of resales.....do.....	1 787.2	2 313.4	10 155.4	3 027.6	1 928.4	479.3	2 627.7
Contract receipts.....do.....	173.3	311.6	5 162.6	494.9	274.9	34.7	157.2
Other miscellaneous receipts.....do.....	656.3	1 758.3	(D)	349.5	245.3	18.7	263.5
Item	Primary metal industries (SIC 33)	Fabricated metal products (SIC 34)	Industrial machinery and equipment (SIC 35)	Electronic and other electric equipment (SIC 36)	Transportation equipment (SIC 37)	Instruments and related products (SIC 38)	Miscellaneous manufacturing industries (SIC 39)
Companies ².....number.....	5 400	32 470	48 900	13 523	9 158	8 962	16 082
All establishments ³.....do.....	6 661	36 092	52 091	15 922	10 505	10 193	16 573
With 1 to 19 employees.....do.....	2 974	22 208	38 242	8 378	6 236	6 191	12 899
With 20 to 99 employees.....do.....	2 256	10 851	10 689	4 480	2 543	2 552	2 961
With 100 employees or more.....do.....	1 431	3 033	3 160	3 064	1 726	1 450	713

See footnotes at end of table.

Table 3a. Summary Statistics by Major Group: 1987—Con.

[Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Primary metal industries (SIC 33)	Fabricated metal products (SIC 34)	Industrial machinery and equipment (SIC 35)	Electronic and other electric equipment (SIC 36)	Transportation equipment (SIC 37)	Instruments and related products (SIC 38)	Miscellaneous manufacturing industries (SIC 39)
Employment and labor costs:							
Employees ----- 1,000--	701.1	1 458.0	1 844.4	1 564.7	1 817.4	982.4	374.3
Compensation ----- mil dol--	25 939.5	43 601.0	61 961.4	47 720.7	74 024.9	34 888.0	8 265.4
Annual payroll ----- do--	19 777.3	34 999.7	50 553.1	38 738.2	58 790.4	28 778.1	6 884.2
Fringe benefits ----- do--	6 162.1	8 600.9	11 408.4	8 982.4	15 234.7	6 109.6	1 381.2
Social Security and other legally required payments ----- do--	2 174.9	3 578.8	4 701.7	3 497.7	5 509.2	2 433.8	661.8
Employer payments and other programs ----- do--	3 987.3	5 022.1	6 706.6	5 484.8	9 725.6	3 675.8	719.4
Production workers:							
Average for year ----- 1,000--	541.5	1 077.8	1 142.8	999.6	1 207.8	502.7	271.7
March ----- do--	532.2	1 070.2	1 138.1	1 000.6	1 221.1	502.7	266.4
May ----- do--	538.6	1 075.2	1 137.7	991.7	1 211.6	503.0	269.5
August ----- do--	544.2	1 076.7	1 139.5	998.1	1 177.6	501.7	274.7
November ----- do--	551.0	1 089.2	1 156.0	1 008.0	1 220.9	503.4	276.1
Hours ----- millions--	1 114.0	2 183.4	2 313.7	1 959.3	2 443.6	1 003.6	520.8
January to March ----- do--	269.4	538.0	571.4	487.9	620.0	248.8	126.4
April to June ----- do--	279.6	546.9	578.8	491.7	616.7	251.3	131.1
July to September ----- do--	277.9	542.3	574.3	481.1	592.4	249.0	129.8
October to December ----- do--	287.0	556.3	589.2	498.5	614.6	254.5	133.5
Wages ----- mil dol--	14 162.8	22 781.3	26 092.6	19 716.8	34 825.7	11 531.2	4 028.1
Value added by manufacture ⁴ ----- do--	46 121.1	74 957.3	118 187.4	95 815.3	137 076.2	70 974.6	17 452.9
Cost of materials⁵	74 692.3	72 668.5	99 569.5	76 195.1	198 854.1	37 211.3	14 665.6
Materials, parts, containers, etc., consumed ----- do--	63 961.0	63 060.3	85 203.9	66 734.7	187 391.6	31 649.1	12 361.6
Resales ----- do--	1 218.1	3 688.7	8 514.3	5 481.1	4 007.5	2 507.0	1 371.8
Fuels ----- do--	2 857.6	900.1	574.7	437.1	713.2	213.7	111.1
Purchased electricity ----- do--	4 695.5	1 723.4	1 802.4	1 716.0	2 026.3	786.6	269.6
Contract work ----- do--	1 960.2	3 295.9	3 474.2	1 824.3	4 715.5	2 054.8	550.9
Quantity of electric energy used for heat and power:							
Purchased ----- mil kWh--	130 668.7	31 448.9	33 354.2	31 344.1	38 291.1	13 126.0	4 636.9
Generated less sold ----- do--	7 230.0	85.4	(D)	(D)	(D)	(D)	2.3
Total value of shipments ----- mil dol--	120 248.2	147 366.1	217 669.9	171 286.4	332 935.7	107 324.8	32 012.0
Primary products ----- do--	109 791.1	(D)	179 671.2	147 651.4	299 845.1	90 206.9	(D)
Secondary products ----- do--	6 978.4	(D)	19 369.7	14 153.1	24 341.1	9 051.7	(D)
Miscellaneous receipts, total ----- do--	3 478.7	(D)	18 629.0	9 481.9	8 749.6	8 066.2	(D)
Value of resales ----- do--	1 369.7	4 678.3	11 751.4	6 907.0	5 899.6	3 447.5	2 067.1
Contract receipts ----- do--	1 366.6	3 189.3	1 714.7	602.0	670.1	206.7	287.0
Other miscellaneous receipts ----- do--	742.4	(D)	5 162.8	1 972.9	2 177.8	4 412.0	(D)

¹Includes auxiliaries.

²For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

³Includes establishments with payroll at any time during year.

⁴Beginning in 1982, all respondents were requested to report their inventories at cost or market prior to adjustment to LIFO cost. This is a change from prior years in which respondents were permitted to value their inventories using any generally accepted accounting method. Consequently, 1982 data for inventories and value added by manufacture are not comparable to prior year data.

⁵Data on purchased services for the repair of buildings and machinery and for communication services are not included in cost of materials, etc., but are shown in table 3d.

Table 3b. Value of Inventories by Major Group: End of 1986 and 1987

[Million dollars. Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	All industries		Food and kindred products (SIC 20)		Tobacco products (SIC 21)	
	End of 1986	End of 1987	End of 1986	End of 1987	End of 1986	End of 1987
Total Inventories -----	317 557.1	332 613.9	24 284.2	25 305.4	5 710.5	5 562.0
Detail by method of valuation:						
Subject to LIFO costing ¹ -----	97 352.8	101 012.3	6 859.2	6 679.9	5 068.9	4 908.5
LIFO reserve -----	29 825.4	30 280.0	1 514.9	1 328.8	2 365.2	2 333.4
LIFO value -----	67 527.4	70 732.3	5 344.3	5 351.1	2 703.7	2 575.1
Not subject to LIFO costing -----	184 580.5	193 943.5	15 861.0	16 979.3	636.9	648.8
Valuation method not reported ² -----	31 769.5	33 254.7	1 491.8	1 510.2	4.6	4.6
Amount subject to LIFO reported without associated reserve and value ³ -----	3 854.4	4 403.4	72.2	136.0	-	-
Detail by stage of fabrication:						
Finished goods -----	101 405.2	104 963.9	13 104.9	13 386.3	686.6	740.1
Work in process -----	111 848.6	118 142.5	2 697.1	2 930.9	133.0	130.3
Materials and supplies -----	104 303.4	109 507.5	8 482.3	8 988.2	4 890.9	4 691.6
Item	Textile mill products (SIC 22)		Apparel and other textile products (SIC 23)		Lumber and wood products (SIC 24)	
	End of 1986	End of 1987	End of 1986	End of 1987	End of 1986	End of 1987
Total Inventories -----	6 938.1	7 642.8	8 422.4	8 974.0	6 871.9	7 229.8
Detail by method of valuation:						
Subject to LIFO costing ¹ -----	2 662.6	3 038.3	1 589.2	1 682.6	1 481.0	1 568.2
LIFO reserve -----	598.6	689.6	309.6	318.3	422.7	452.7
LIFO value -----	2 064.0	2 348.7	1 279.5	1 364.3	1 058.3	1 115.5
Not subject to LIFO costing -----	3 534.8	3 820.2	5 035.6	5 461.1	3 297.7	3 482.6
Valuation method not reported ² -----	637.6	684.0	1 774.3	1 806.0	1 876.1	1 946.7
Amount subject to LIFO reported without associated reserve and value ³ -----	103.0	100.3	23.4	24.2	217.2	232.4

See footnotes at end of table.

Table 3b. Value of Inventories by Major Group: End of 1986 and 1987—Con.

[Million dollars. Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Textile mill products (SIC 22)		Apparel and other textile products (SIC 23)		Lumber and wood products (SIC 24)	
	End of 1986	End of 1987	End of 1986	End of 1987	End of 1986	End of 1987
Detail by stage of fabrication:						
Finished goods	2 872.8	3 131.0	3 758.1	3 910.6	2 631.6	2 705.0
Work in process	2 047.4	2 228.4	1 792.5	1 918.6	1 386.6	1 490.0
Materials and supplies	2 017.9	2 283.4	2 871.9	3 144.8	2 853.7	3 034.9
Item	Furniture and fixtures (SIC 25)		Paper and allied products (SIC 26)		Printing and publishing (SIC 27)	
	End of 1986	End of 1987	End of 1986	End of 1987	End of 1986	End of 1987
Total inventories	5 012.2	5 406.8	10 198.9	11 111.0	9 317.9	9 940.6
Detail by method of valuation:						
Subject to LIFO costing ¹	1 701.5	1 778.8	3 464.6	3 750.0	2 417.4	2 665.0
LIFO reserve	385.5	391.9	944.9	1 026.0	661.7	646.8
LIFO value	1 315.9	1 386.9	2 519.7	2 723.9	1 755.8	2 018.2
Not subject to LIFO costing	2 175.6	2 417.5	5 694.5	6 114.0	4 534.9	4 841.0
Valuation method not reported ²	1 023.4	1 083.7	764.2	870.7	2 257.9	2 307.5
Amount subject to LIFO reported without associated reserve and value ³	111.7	126.8	275.6	376.3	107.7	126.9
Detail by stage of fabrication:						
Finished goods	1 653.8	1 761.1	3 730.0	3 951.4	3 215.4	3 445.3
Work in process	1 159.0	1 224.2	1 153.9	1 185.7	2 110.0	2 218.5
Materials and supplies	2 199.4	2 421.5	5 315.0	5 973.9	3 992.5	4 276.7
Item	Chemicals and allied products (SIC 28)		Petroleum and coal products (SIC 29)		Rubber and miscellaneous plastics products (SIC 30)	
	End of 1986	End of 1987	End of 1986	End of 1987	End of 1986	End of 1987
Total inventories	25 557.8	26 387.5	8 643.8	9 797.1	9 178.4	9 982.5
Detail by method of valuation:						
Subject to LIFO costing ¹	11 406.8	12 097.6	4 165.6	4 961.8	3 558.0	3 947.6
LIFO reserve	3 406.8	3 525.2	2 008.2	2 149.5	921.7	1 032.9
LIFO value	8 000.0	8 572.4	2 157.4	2 812.3	2 636.3	2 914.8
Not subject to LIFO costing	11 884.5	11 885.1	3 591.7	3 856.8	3 936.0	4 251.3
Valuation method not reported ²	1 870.3	2 030.4	274.4	388.7	1 502.2	1 565.5
Amount subject to LIFO reported without associated reserve and value ³	396.1	374.3	612.2	589.8	182.3	218.0
Detail by stage of fabrication:						
Finished goods	12 722.6	13 069.4	4 290.6	4 970.8	4 191.1	4 404.3
Work in process	3 864.0	3 979.8	2 048.7	2 249.7	1 472.9	1 578.7
Materials and supplies	8 971.2	9 338.3	2 304.5	2 576.6	3 514.4	3 999.6
Item	Leather and leather products (SIC 31)		Stone, clay, and glass products (SIC 32)		Primary metal industries (SIC 33)	
	End of 1986	End of 1987	End of 1986	End of 1987	End of 1986	End of 1987
Total inventories	1 448.0	1 572.9	6 966.6	7 031.4	18 333.8	18 977.6
Detail by method of valuation:						
Subject to LIFO costing ¹	463.1	568.6	2 530.0	2 478.8	9 840.7	10 116.1
LIFO reserve	141.4	168.7	689.0	670.6	3 399.6	3 338.2
LIFO value	321.7	399.9	1 841.0	1 808.2	6 441.1	6 777.9
Not subject to LIFO costing	889.0	909.0	3 380.4	3 430.8	7 190.8	7 519.0
Valuation method not reported ²	96.0	95.3	1 004.1	1 072.4	1 038.8	1 082.0
Amount subject to LIFO reported without associated reserve and value ³	--	--	52.1	49.3	263.5	260.5
Detail by stage of fabrication:						
Finished goods	677.7	688.5	3 666.0	3 650.7	5 221.5	5 050.6
Work in process	306.7	346.4	997.5	1 062.1	6 941.5	7 677.6
Materials and supplies	463.6	538.0	2 303.1	2 318.6	6 170.8	6 249.4
Item	Fabricated metal products (SIC 34)		Industrial machinery and equipment (SIC 35)		Electronic and other electric equipment (SIC 36)	
	End of 1986	End of 1987	End of 1986	End of 1987	End of 1986	End of 1987
Total inventories	21 754.6	22 554.4	41 588.0	42 277.7	27 919.1	29 088.1
Detail by method of valuation:						
Subject to LIFO costing ¹	7 920.4	8 021.5	13 682.9	13 493.8	6 202.6	6 215.3
LIFO reserve	2 280.9	2 311.9	4 684.9	4 641.6	1 726.7	1 810.1
LIFO value	5 639.5	5 709.6	8 998.0	8 852.2	4 475.9	4 405.2
Not subject to LIFO costing	9 971.9	10 409.4	22 329.3	22 950.1	18 765.4	19 755.2
Valuation method not reported ²	3 542.1	3 722.3	5 306.2	5 431.5	2 665.5	2 831.5
Amount subject to LIFO reported without associated reserve and value ³	320.1	401.3	269.7	402.3	285.6	286.2
Detail by stage of fabrication:						
Finished goods	6 395.5	6 437.3	12 716.9	12 656.6	7 338.7	7 705.0
Work in process	7 508.5	7 727.5	17 346.1	17 493.4	11 841.8	12 199.5
Materials and supplies	7 850.6	8 389.7	11 525.0	12 127.7	8 738.6	9 183.6

See footnotes at end of table.

Table 3b. Value of Inventories by Major Group: End of 1986 and 1987—Con.

[Million dollars. Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Transportation equipment (SIC 37)		Instruments and related products (SIC 38)		Miscellaneous manufacturing industries (SIC 39)	
	End of 1986	End of 1987	End of 1986	End of 1987	End of 1986	End of 1987
Total Inventories	52 117.8	55 061.9	21 849.2	23 013.4	5 443.9	5 697.1
Detail by method of valuation:						
Subject to LIFO costing ¹	6 681.0	7 328.9	4 180.9	4 078.2	1 479.1	1 635.7
LIFO reserve	1 531.1	1 570.2	1 405.1	1 418.4	427.3	455.7
LIFO value	5 149.9	5 758.7	2 775.8	2 659.9	1 051.7	1 180.0
Not subject to LIFO costing	43 281.3	45 396.1	16 216.9	17 347.6	2 372.2	2 468.4
Valuation method not reported ²	1 725.5	1 853.3	1 397.7	1 450.7	1 514.2	1 514.6
Amount subject to LIFO reported without associated reserve and value ³	429.9	483.6	53.7	136.8	78.4	78.3
Detail by stage of fabrication:						
Finished goods	5 918.4	6 639.0	4 226.7	4 194.8	2 386.3	2 466.2
Work in process	33 300.0	35 840.2	12 592.6	13 485.5	1 148.8	1 175.4
Materials and supplies	12 899.5	12 582.7	5 029.9	5 333.0	1 908.8	2 055.5

¹Only includes data reported by respondents who (a) indicated amount of inventories subject to LIFO cost, and (b) provided sufficient information to determine associated LIFO reserve and value figures.

²Includes data estimated for nonresponse and nonmail administrative records and data reported by respondents who provided total inventory figures without other information.

³Includes data reported by respondents who indicated their inventories were subject to LIFO cost, but did not provide associated LIFO reserve and value figures.

Table 3c. Inventories by Specific Method of Valuation by Major Group: End of 1987

[Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	All industries		Food and kindred products (SIC 20)		Tobacco products (SIC 21)	
	Percent of total	Absolute standard error (percent)	Percent of total	Absolute standard error (percent)	Percent of total	Absolute standard error (percent)
Total Inventories	100.0	(X)	100.0	(X)	100.0	(X)
Last-In, First-Out (LIFO) methods	30.4	(X)	26.4	(X)	88.3	(X)
Non-LIFO methods	58.3	(X)	67.1	(X)	11.7	(X)
Cost basis:						
First-In, First-Out (FIFO)	15.9	.2	21.3	.4	.1	.1
Average cost	10.9	.2	14.4	.3	6.3	.4
Specific or actual cost	10.4	.4	9.1	.4	4.2	.4
Standard cost	13.5	.2	10.6	.2	1.1	.2
Other	4.6	.1	2.0	.3	—	.1
Market basis:						
Market lower than cost	1.2	.1	1.5	.1	(Z)	.1
Market always used	1.9	.4	8.2	.2	(Z)	.1
Valuation method not reported	10.0	(X)	6.0	(X)	.1	(X)
Amount subject to LIFO reported without associated reserve and value	1.3	(X)	.5	(X)	—	(X)
Item	Textile mill products (SIC 22)		Apparel and other textile products (SIC 23)		Lumber and wood products (SIC 24)	
	Percent of total	Absolute standard error (percent)	Percent of total	Absolute standard error (percent)	Percent of total	Absolute standard error (percent)
Total Inventories	100.0	(X)	100.0	(X)	100.0	(X)
Last-In, First-Out (LIFO) methods	39.8	(X)	18.7	(X)	21.7	(X)
Non-LIFO methods	50.0	(X)	60.9	(X)	48.2	(X)
Cost basis:						
First-In, First-Out (FIFO)	22.0	.4	32.7	.5	17.5	1.0
Average cost	3.9	.2	4.1	.3	12.4	.8
Specific or actual cost	3.9	.2	7.3	.3	8.0	.8
Standard cost	14.7	.4	12.6	.4	5.7	.5
Other .....	.3	.1	1.8	.2	.6	.1
Market basis:						
Market lower than cost	5.1	.1	1.5	.1	1.7	.2
Market always used .....	.1	.1	.8	.2	2.3	.5
Valuation method not reported	8.9	(X)	20.1	(X)	26.9	(X)
Amount subject to LIFO reported without associated reserve and value	1.3	(X)	.3	(X)	3.2	(X)

See footnotes at end of table.

Table 3c. Inventories by Specific Method of Valuation by Major Group: End of 1987—Con.

[Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Furniture and fixtures (SIC 25)		Paper and allied products (SIC 26)		Printing and publishing (SIC 27)	
	Percent of total	Absolute standard error (percent)	Percent of total	Absolute standard error (percent)	Percent of total	Absolute standard error (percent)
Total inventories	100.0	(X)	100.0	(X)	100.0	(X)
Last-In, First-Out (LIFO) methods	32.9	(X)	33.8	(X)	26.8	(X)
Non-LIFO methods	44.7	(X)	55.0	(X)	48.7	(X)
Cost basis:						
First-In, First-Out (FIFO)	23.4	.7	13.3	.2	25.1	.7
Average cost	3.0	.5	11.9	.1	7.1	.8
Specific or actual cost	6.5	.5	6.5	.2	9.7	.4
Standard cost	10.3	.6	13.3	.2	4.1	.5
Other .....	.6	.2	.4	.1	.3	.1
Market basis:						
Market lower than cost .....	.2	.1	8.7	.1	.8	.1
Market always used .....	.8	.3	.8	.1	1.6	.1
Valuation method not reported	20.0	(X)	7.8	(X)	23.2	(X)
Amount subject to LIFO reported without associated reserve and value	2.3	(X)	3.4	(X)	1.3	(X)
Item	Chemicals and allied products (SIC 28)		Petroleum and coal products (SIC 29)		Rubber and miscellaneous plastics products (SIC 30)	
	Percent of total	Absolute standard error (percent)	Percent of total	Absolute standard error (percent)	Percent of total	Absolute standard error (percent)
Total inventories	100.0	(X)	100.0	(X)	100.0	(X)
Last-In, First-Out (LIFO) methods	45.8	(X)	50.6	(X)	39.5	(X)
Non-LIFO methods	45.0	(X)	39.4	(X)	42.6	(X)
Cost basis:						
First-In, First-Out (FIFO)	11.9	.2	6.6	.2	16.6	.6
Average cost	8.0	.1	17.6	.1	4.4	.4
Specific or actual cost	5.0	.2	2.4	.1	5.5	.4
Standard cost	18.6	.2	1.9	.1	14.3	.6
Other .....	.4	.1	1.2	.1	.9	.5
Market basis:						
Market lower than cost .....	.6	.3	8.0	.1	.2	.1
Market always used .....	.6	.1	1.7	.1	.7	.2
Valuation method not reported	7.7	(X)	4.0	(X)	15.7	(X)
Amount subject to LIFO reported without associated reserve and value	1.4	(X)	6.0	(X)	2.2	(X)
Item	Leather and leather products (SIC 31)		Stone, clay, and glass products (SIC 32)		Primary metal industries (SIC 33)	
	Percent of total	Absolute standard error (percent)	Percent of total	Absolute standard error (percent)	Percent of total	Absolute standard error (percent)
Total inventories	100.0	(X)	100.0	(X)	100.0	(X)
Last-In, First-Out (LIFO) methods	36.1	(X)	35.3	(X)	53.3	(X)
Non-LIFO methods	57.8	(X)	48.8	(X)	39.6	(X)
Cost basis:						
First-In, First-Out (FIFO)	32.6	2.9	7.6	2.0	11.5	.2
Average cost	8.6	1.3	8.1	2.7	8.8	.1
Specific or actual cost	5.8	.9	20.6	6.9	4.2	.1
Standard cost	7.5	1.0	11.4	4.4	13.3	.1
Other .....	.9	.2	.5	.2	.6	.1
Market basis:						
Market lower than cost	1.2	.2	.2	.1	.6	.1
Market always used	1.2	.4	.3	.2	.6	.1
Valuation method not reported	6.1	(X)	15.3	(X)	5.7	(X)
Amount subject to LIFO reported without associated reserve and value	-	(X)	.7	(X)	1.4	(X)
Item	Fabricated metal products (SIC 34)		Industrial machinery and equipment (SIC 35)		Electronic and other electric equipment (SIC 36)	
	Percent of total	Absolute standard error (percent)	Percent of total	Absolute standard error (percent)	Percent of total	Absolute standard error (percent)
Total inventories	100.0	(X)	100.0	(X)	100.0	(X)
Last-In, First-Out (LIFO) methods	35.6	(X)	31.9	(X)	21.4	(X)
Non-LIFO methods	46.2	(X)	54.3	(X)	67.9	(X)
Cost basis:						
First-In, First-Out (FIFO)	18.2	.3	14.6	.2	23.4	.3
Average cost	4.5	.2	11.0	.1	10.0	.2
Specific or actual cost	9.1	.3	5.8	.2	6.4	.2
Standard cost	12.3	.2	20.6	.2	21.8	.2
Other .....	.9	.1	.8	.1	4.5	.1
Market basis:						
Market lower than cost .....	.4	.1	1.1	.1	.7	.1
Market always used .....	.6	.2	.4	.1	1.2	.1
Valuation method not reported	16.5	(X)	12.8	(X)	9.7	(X)
Amount subject to LIFO reported without associated reserve and value	1.8	(X)	1.0	(X)	1.0	(X)

See footnotes at end of table.

Table 3c. Inventories by Specific Method of Valuation by Major Group: End of 1987—Con.

[Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Transportation equipment (SIC 37)		Instruments and related products (SIC 38)		Miscellaneous manufacturing industries (SIC 39)	
	Percent of total	Absolute standard error (percent)	Percent of total	Absolute standard error (percent)	Percent of total	Absolute standard error (percent)
Total inventories	100.0	(X)	100.0	(X)	100.0	(X)
Last-In, First-Out (LIFO) methods	13.3	(X)	17.7	(X)	28.7	(X)
Non-LIFO methods	82.4	(X)	75.4	(X)	43.3	(X)
Cost basis:						
First-In, First-Out (FIFO)	14.1	.2	13.4	.4	13.0	3.9
Average cost	19.2	.8	10.9	.1	1.8	.6
Specific or actual cost	19.8	.3	23.6	.2	2.9	.9
Standard cost	9.0	.2	20.8	.3	6.1	1.8
Other	19.8	.3	2.8	.1	1.0	.3
Market basis:						
Market lower than cost .....	.2	.1	.1	.1	.4	.2
Market always used .....	.3	.1	3.9	.1	18.1	7.5
Valuation method not reported	3.4	(X)	6.3	(X)	26.6	(X)
Amount subject to LIFO reported without associated reserve and value .....	.9	(X)	.6	(X)	1.4	(X)

Note: Percentages shown for LIFO and non-LIFO totals and categories "valuation method not reported" and "amount subject to LIFO reported ..." are based on census universe estimates included in table 3b. Percentages shown for specific non-LIFO methods of valuation (e.g., FIFO, etc.) are based on a representative sample of establishments included in annual survey of manufactures (ASM) panel for 1987 (see appendixes for description of ASM). Absolute standard error of each ASM estimate is shown above.

Table 3d. Gross Book Value of Depreciable Assets, Capital Expenditures, Retirements, Depreciation, and Rental Payments by Major Group: 1987

[Million dollars. Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	All industries ¹	Food and kindred products (SIC 20)	Tobacco products (SIC 21)	Textile mill products (SIC 22)	Apparel and other textile products (SIC 23)	Lumber and wood products (SIC 24)	Furniture and fixtures (SIC 25)
Gross book value of depreciable assets:							
Total:							
Beginning of year	867 985.2	75 739.2	5 703.1	22 080.6	7 566.7	22 056.5	8 148.5
New capital expenditures ¹	78 647.8	7 197.5	464.3	2 027.7	736.4	1 825.2	894.9
Used capital expenditures	7 014.3	555.5	54.1	209.1	93.4	291.6	73.6
Retirements	31 989.6	2 628.7	85.3	817.3	505.4	1 049.0	181.6
End of year	921 657.8	80 863.5	6 136.3	23 500.1	7 891.1	23 124.4	8 935.4
Building and other structures:							
Beginning of year	197 148.1	20 145.6	1 718.6	4 775.2	2 672.0	4 073.4	3 315.9
New capital expenditures ¹	12 914.0	1 421.7	89.9	283.2	159.2	289.0	273.1
Used capital expenditures	1 847.8	168.7	2.3	50.1	47.8	59.2	32.5
Retirements	4 168.4	470.9	5.6	101.0	126.9	116.1	54.7
End of year	207 741.6	21 265.1	1 805.3	5 007.5	2 752.0	4 305.5	3 566.8
Machinery and equipment:							
Beginning of year	670 836.8	55 593.6	3 984.5	17 305.5	4 894.7	17 983.1	4 832.6
New capital expenditures ¹	65 733.7	5 775.7	374.4	1 744.5	577.2	1 536.3	621.9
Used capital expenditures	5 166.5	386.8	51.8	159.0	45.6	232.4	41.1
Retirements	27 821.4	2 157.7	79.6	716.3	378.5	932.9	126.9
End of year	713 916.2	59 598.4	4 331.0	18 492.6	5 139.1	18 818.9	5 368.7
Depreciation charges during 1987:							
Total:							
Buildings and other structures	63 012.0	5 281.4	312.3	1 510.5	653.7	1 675.1	649.8
Buildings and other structures	9 183.5	914.9	62.2	194.2	148.0	190.8	168.2
Machinery and equipment	53 828.4	4 366.7	250.1	1 316.4	505.7	1 484.3	481.6
Rental payments:							
Total:							
Buildings and other structures	15 621.7	1 086.2	29.5	274.1	506.3	421.8	389.1
Buildings and other structures	7 256.0	449.4	10.9	126.3	268.6	156.8	206.2
Machinery and equipment	8 365.7	636.8	18.6	147.8	237.7	265.0	182.8

Item	Paper and allied products (SIC 26)	Printing and publishing (SIC 27)	Chemicals and allied products (SIC 28)	Petroleum and coal products (SIC 29)	Rubber and miscellaneous plastics products (SIC 30)	Leather and leather products (SIC 31)	Stone, clay, and glass products (SIC 32)
Gross book value of depreciable assets:							
Total:							
Beginning of year	68 144.0	41 601.0	120 249.2	48 605.2	33 360.2	1 336.6	33 974.0
New capital expenditures ¹	5 752.5	4 908.4	8 710.6	2 340.6	3 410.3	100.8	2 417.3
Used capital expenditures	4 427.4	512.2	447.2	106.5	366.4	14.8	260.8
Retirements	1 236.0	1 274.5	3 924.8	1 623.8	1 033.4	86.3	1 083.8
End of year	73 087.9	45 747.0	125 482.3	49 428.5	36 103.4	1 366.0	35 568.4
Building and other structures:							
Beginning of year	8 717.1	10 175.2	20 711.1	14 973.4	7 365.2	458.5	6 843.8
New capital expenditures ¹	740.5	846.9	1 527.3	557.9	497.8	22.6	273.5
Used capital expenditures	59.5	194.9	155.5	52.4	103.6	6.0	49.0
Retirements	94.7	209.1	435.8	196.6	141.9	21.0	131.0
End of year	9 422.5	11 007.9	21 958.1	15 387.1	7 824.7	466.1	7 035.3
Machinery and equipment:							
Beginning of year	59 426.9	31 425.8	99 538.2	33 631.6	25 995.0	878.1	27 130.2
New capital expenditures ¹	5 012.0	4 061.4	7 183.3	1 782.6	2 912.5	78.2	2 143.8
Used capital expenditures	367.9	317.4	291.6	54.1	262.7	8.9	211.8
Retirements	1 141.3	1 065.4	3 489.0	1 427.3	891.5	65.3	952.8
End of year	63 665.5	34 739.2	103 524.1	34 041.4	28 278.8	899.9	28 533.0

See footnotes at end of table.

Table 3d. Gross Book Value of Depreciable Assets, Capital Expenditures, Retirements, Depreciation, and Rental Payments by Major Group: 1987--Con.

[Million dollars. Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Paper and allied products (SIC 26)	Printing and publishing (SIC 27)	Chemicals and allied products (SIC 28)	Petroleum and coal products (SIC 29)	Rubber and miscellaneous plastics products (SIC 30)	Leather and leather products (SIC 31)	Stone, clay, and glass products (SIC 32)
Depreciation charges during 1987:							
Total	3 982.6	3 601.9	7 481.8	2 202.4	2 472.8	104.8	2 381.7
Buildings and other structures	356.4	474.1	1 031.3	646.3	322.1	27.1	310.6
Machinery and equipment	3 626.2	3 127.7	6 450.5	1 556.1	2 150.7	77.7	2 071.0
Rental payments:							
Total	535.6	1 738.4	972.8	351.9	701.7	69.7	434.2
Buildings and other structures	219.9	868.4	351.7	110.0	323.9	33.4	173.7
Machinery and equipment	315.6	870.0	621.1	241.9	377.8	36.3	260.5
Item	Primary metal industries (SIC 33)	Fabricated metal products (SIC 34)	Industrial machinery and equipment (SIC 35)	Electronic and other electric equipment (SIC 36)	Transportation equipment (SIC 37)	Instruments and related products (SIC 38)	Miscellaneous manufacturing industries (SIC 39)
Gross book value of depreciable assets:							
Total:							
Beginning of year	71 070.8	49 074.7	76 387.4	62 856.6	80 202.1	32 835.2	6 993.6
New capital expenditures ¹	3 850.9	4 816.4	6 954.6	6 875.1	10 779.7	3 872.4	712.2
Used capital expenditures	342.0	604.2	897.7	450.5	822.7	403.4	81.2
Retirements	2 405.5	1 734.8	4 287.7	3 616.2	2 803.6	1 342.7	269.3
End of year	72 858.1	52 760.4	79 952.1	66 566.1	89 000.9	35 768.3	7 517.7
Building and other structures:							
Beginning of year	10 901.4	11 325.1	19 217.4	16 430.4	21 042.6	10 146.8	2 139.5
New capital expenditures ¹	429.2	711.0	1 041.1	930.0	2 002.1	695.1	122.8
Used capital expenditures	56.8	158.5	207.1	162.4	150.5	101.7	29.2
Retirements	197.0	228.8	539.3	495.9	320.5	234.5	47.1
End of year	11 190.5	11 965.8	19 926.4	17 026.9	22 874.7	10 709.1	2 244.4
Machinery and equipment:							
Beginning of year	60 169.3	37 749.6	57 170.0	46 426.2	59 159.5	22 688.4	4 854.1
New capital expenditures ¹	3 421.6	4 105.3	5 913.5	5 945.1	8 777.6	3 177.3	589.4
Used capital expenditures	285.2	445.7	690.6	288.1	672.1	301.7	52.0
Retirements	2 208.5	1 506.1	3 748.4	3 120.2	2 483.1	1 108.2	222.3
End of year	61 667.7	40 794.6	60 025.7	49 539.2	66 126.1	25 059.2	5 273.3
Depreciation charges during 1987:							
Total	3 757.3	3 596.1	6 302.6	6 022.5	7 181.1	3 175.1	666.3
Buildings and other structures	415.2	479.4	845.3	854.1	1 057.6	532.3	153.3
Machinery and equipment	3 342.0	3 116.7	5 457.1	5 168.3	6 123.6	2 642.8	513.2
Rental payments:							
Total	541.5	1 191.8	2 002.8	1 351.8	1 615.8	1 066.5	340.2
Buildings and other structures	119.3	568.5	1 029.2	727.5	757.3	594.9	159.9
Machinery and equipment	422.2	623.3	973.6	624.3	858.5	471.5	180.4

Note: Retirements and depreciation data for establishments not included in ASM sample were extrapolated from historical ratio of retirements or depreciation to assets. These ratios were developed at the industry level.

¹Data on new machinery and equipment expenditures by type are provided in table 3e.

Table 3e. Supplemental Industry Statistics Based on Sample Estimates by Major Group: 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	All industries		Food and kindred products (SIC 20)		Tobacco products (SIC 21)	
	Amount (million dollars)	Relative standard error of estimate ¹ (percent)	Amount (million dollars)	Relative standard error of estimate ¹ (percent)	Amount (million dollars)	Relative standard error of estimate ¹ (percent)
Purchased services:						
Cost of purchased services for the repair of-						
Buildings and other structures	4 207.3	(X)	283.5	(X)	20.3	(X)
Response coverage ratio (percent) ²	60.0	(X)	68.4	(X)	90.6	(X)
Machinery	14 586.5	(X)	1 384.5	(X)	53.6	(X)
Response coverage ratio (percent) ²	62.0	(X)	70.2	(X)	93.4	(X)
Cost of purchased communication services	3 925.3	(X)	251.1	(X)	8.2	(X)
Response coverage ratio (percent) ²	60.6	(X)	67.9	(X)	91.5	(X)
New machinery and equipment expenditures	65 733.7	(X)	5 775.7	(X)	374.4	(X)
Automobiles, trucks, etc.	2 279.7	5	453.0	4	2.1	11
Computers and peripheral	5 272.0	1	204.0	4	33.5	1
All other	58 182.0	1	5 118.7	1	338.8	1
Adjustment ratio ²	1.2	(X)	1.2	(X)	1.0	(X)
Cost of materials, components, parts, etc., used	1 159 157.1	(X)	185 413.2	(X)	5 847.8	(X)
Materials purchased or transferred from foreign sources	111 354.7	1	9 008.2	4	824.2	1
Materials purchased or transferred from domestic sources	1 047 802.4	1	176 405.0	1	5 023.6	1
Adjustment ratio ²	1.4	(X)	1.4	(X)	1.2	(X)

See footnotes at end of table.

**Table 3e. Supplemental Industry Statistics Based on Sample Estimates by Major Group:
1987—Con.**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Textile mill products (SIC 22)		Apparel and other textile products (SIC 23)		Lumber and wood products (SIC 24)	
	Amount (million dollars)	Relative standard error of estimate ¹ (percent)	Amount (million dollars)	Relative standard error of estimate ¹ (percent)	Amount (million dollars)	Relative standard error of estimate ¹ (percent)
Purchased services:						
Cost of purchased services for the repair of—						
Buildings and other structures	92.9	(X)	43.9	(X)	43.9	(X)
Response coverage ratio (percent) ²	66.1	(X)	42.8	(X)	52.9	(X)
Machinery	396.8	(X)	136.3	(X)	415.9	(X)
Response coverage ratio (percent) ²	68.6	(X)	46.5	(X)	55.1	(X)
Cost of purchased communication services	60.3	(X)	66.3	(X)	83.9	(X)
Response coverage ratio (percent) ²	66.1	(X)	43.7	(X)	52.4	(X)
New machinery and equipment expenditures	1 744.5	(X)	577.2	(X)	1 536.3	(X)
Automobiles, trucks, etc.	18.3	10	36.3	7	157.6	8
Computers and peripheral	42.9	7	51.8	10	48.3	8
All other	1 683.3	1	489.1	2	1 330.4	1
Adjustment ratio ²	1.2	(X)	1.4	(X)	1.6	(X)
Cost of materials, components, parts, etc., used	33 766.7	(X)	24 659.0	(X)	36 437.9	(X)
Materials purchased or transferred from foreign sources ..	1 313.5	5	1 654.6	5	1 004.3	8
Materials purchased or transferred from domestic sources	32 453.2	1	22 994.4	1	35 433.6	1
Adjustment ratio ²	1.4	(X)	1.8	(X)	1.8	(X)
Item	Furniture and fixtures (SIC 25)		Paper and allied products (SIC 26)		Printing and publishing (SIC 27)	
	Amount (million dollars)	Relative standard error of estimate ¹ (percent)	Amount (million dollars)	Relative standard error of estimate ¹ (percent)	Amount (million dollars)	Relative standard error of estimate ¹ (percent)
Purchased services:						
Cost of purchased services for the repair of—						
Buildings and other structures	54.4	(X)	180.4	(X)	167.7	(X)
Response coverage ratio (percent) ²	63.5	(X)	68.4	(X)	54.7	(X)
Machinery	112.9	(X)	1 214.6	(X)	543.7	(X)
Response coverage ratio (percent) ²	65.7	(X)	73.2	(X)	57.9	(X)
Cost of purchased communication services	69.6	(X)	139.2	(X)	329.3	(X)
Response coverage ratio (percent) ²	62.4	(X)	71.0	(X)	54.6	(X)
New machinery and equipment expenditures	621.9	(X)	5 012.0	(X)	4 061.4	(X)
Automobiles, trucks, etc.	54.8	10	48.1	6	139.5	6
Computers and peripheral	48.7	5	108.2	2	635.9	7
All other	518.3	2	4 855.7	1	3 286.0	2
Adjustment ratio ²	1.3	(X)	1.1	(X)	1.4	(X)
Cost of materials, components, parts, etc., used	15 587.0	(X)	51 662.5	(X)	33 901.4	(X)
Materials purchased or transferred from foreign sources ..	716.1	7	2 168.3	2	3 939.8	5
Materials purchased or transferred from domestic sources	14 870.8	1	49 494.2	1	29 961.6	1
Adjustment ratio ²	1.6	(X)	1.3	(X)	1.6	(X)
Item	Chemicals and allied products (SIC 28)		Petroleum and coal products (SIC 29)		Rubber and miscellaneous plastics products (SIC 30)	
	Amount (million dollars)	Relative standard error of estimate ¹ (percent)	Amount (million dollars)	Relative standard error of estimate ¹ (percent)	Amount (million dollars)	Relative standard error of estimate ¹ (percent)
Purchased services:						
Cost of purchased services for the repair of—						
Buildings and other structures	414.5	(X)	685.7	(X)	115.1	(X)
Response coverage ratio (percent) ²	70.3	(X)	72.4	(X)	58.7	(X)
Machinery	1 871.9	(X)	824.9	(X)	636.3	(X)
Response coverage ratio (percent) ²	72.3	(X)	67.3	(X)	62.8	(X)
Cost of purchased communication services	268.6	(X)	91.5	(X)	144.6	(X)
Response coverage ratio (percent) ²	73.3	(X)	71.0	(X)	59.7	(X)
New machinery and equipment expenditures	7 183.3	(X)	1 782.6	(X)	2 912.5	(X)
Automobiles, trucks, etc.	121.6	9	33.4	8	69.8	9
Computers and peripheral	343.4	1	45.2	13	109.9	5
All other	6 718.3	1	1 704.0	1	2 732.8	1
Adjustment ratio ²	1.2	(X)	1.2	(X)	1.4	(X)
Cost of materials, components, parts, etc., used	91 576.6	(X)	105 658.3	(X)	38 050.8	(X)
Materials purchased or transferred from foreign sources ..	6 320.6	3	28 356.1	1	1 712.5	4
Materials purchased or transferred from domestic sources	85 256.0	1	77 302.2	1	36 338.3	1
Adjustment ratio ²	1.4	(X)	1.2	(X)	1.6	(X)
Item	Leather and leather products (SIC 31)		Stone, clay, and glass products (SIC 32)		Primary metal industries (SIC 33)	
	Amount (million dollars)	Relative standard error of estimate ¹ (percent)	Amount (million dollars)	Relative standard error of estimate ¹ (percent)	Amount (million dollars)	Relative standard error of estimate ¹ (percent)
Purchased services:						
Cost of purchased services for the repair of—						
Buildings and other structures	12.2	(X)	87.0	(X)	192.4	(X)
Response coverage ratio (percent) ²	73.5	(X)	53.7	(X)	69.4	(X)
Machinery	35.9	(X)	609.8	(X)	1 545.6	(X)
Response coverage ratio (percent) ²	80.1	(X)	57.3	(X)	70.3	(X)

See footnotes at end of table.

**Table 3e. Supplemental Industry Statistics Based on Sample Estimates by Major Group:
1987—Con.**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Leather and leather products (SIC 31)		Stone, clay, and glass products (SIC 32)		Primary metal industries (SIC 33)	
	Amount (million dollars)	Relative standard error of estimate ¹ (percent)	Amount (million dollars)	Relative standard error of estimate ¹ (percent)	Amount (million dollars)	Relative standard error of estimate ¹ (percent)
Purchased services—Con.						
Cost of purchased communication services	16.1	(X)	83.4	(X)	147.8	(X)
Response coverage ratio (percent) ²	80.6	(X)	56.8	(X)	72.1	(X)
New machinery and equipment expenditures	78.2	(X)	2 143.8	(X)	3 421.6	(X)
Automobiles, trucks, etc.	4.1	18	260.3	8	38.9	5
Computers and peripheral	11.0	14	129.3	6	113.0	5
All other	63.1	4	1 754.2	2	3 269.6	1
Adjustment ratio ²	1.1	(X)	1.4	(X)	1.1	(X)
Cost of materials, components, parts, etc., used	4 199.6	(X)	22 034.0	(X)	63 961.0	(X)
Materials purchased or transferred from foreign sources ..	531.7	18	1 243.3	7	4 951.0	2
Materials purchased or transferred from domestic sources	3 667.9	4	20 790.7	1	59 010.0	1
Adjustment ratio ²	1.3	(X)	1.8	(X)	1.3	(X)
Item	Fabricated metal products (SIC 34)		Industrial machinery and equipment (SIC 35)		Electronic and other electric equipment (SIC 36)	
	Amount (million dollars)	Relative standard error of estimate ¹ (percent)	Amount (million dollars)	Relative standard error of estimate ¹ (percent)	Amount (million dollars)	Relative standard error of estimate ¹ (percent)
Purchased services:						
Cost of purchased services for the repair of—						
Buildings and other structures	202.8	(X)	520.4	(X)	399.5	(X)
Response coverage ratio (percent) ²	61.4	(X)	63.6	(X)	66.2	(X)
Machinery	1 058.7	(X)	779.4	(X)	787.7	(X)
Response coverage ratio (percent) ²	64.2	(X)	64.3	(X)	68.2	(X)
Cost of purchased communication services	257.8	(X)	532.5	(X)	372.5	(X)
Response coverage ratio (percent) ²	61.2	(X)	64.0	(X)	66.2	(X)
New machinery and equipment expenditures	4 105.3	(X)	5 913.5	(X)	5 945.1	(X)
Automobiles, trucks, etc.	137.2	5	385.6	24	64.5	5
Computers and peripheral	211.5	4	976.9	3	714.6	3
All other	3 756.6	1	4 551.0	3	5 166.0	1
Adjustment ratio ²	1.2	(X)	1.3	(X)	1.3	(X)
Cost of materials, components, parts, etc., used	63 060.3	(X)	85 203.9	(X)	66 734.7	(X)
Materials purchased or transferred from foreign sources ..	3 788.0	3	9 753.3	1	7 284.8	2
Materials purchased or transferred from domestic sources	59 272.3	1	75 450.6	1	59 449.9	1
Adjustment ratio ²	1.5	(X)	1.4	(X)	1.3	(X)
Item	Transportation equipment (SIC 37)		Instruments and related products (SIC 38)		Miscellaneous manufacturing industries (SIC 39)	
	Amount (million dollars)	Relative standard error of estimate ¹ (percent)	Amount (million dollars)	Relative standard error of estimate ¹ (percent)	Amount (million dollars)	Relative standard error of estimate ¹ (percent)
Purchased services:						
Cost of purchased services for the repair of—						
Buildings and other structures	466.7	(X)	195.0	(X)	29.0	(X)
Response coverage ratio (percent) ²	81.5	(X)	73.8	(X)	49.7	(X)
Machinery	1 638.6	(X)	451.3	(X)	88.2	(X)
Response coverage ratio (percent) ²	81.9	(X)	73.9	(X)	51.5	(X)
Cost of purchased communication services	635.5	(X)	314.7	(X)	52.4	(X)
Response coverage ratio (percent) ²	82.3	(X)	73.5	(X)	50.3	(X)
New machinery and equipment expenditures	8 777.6	(X)	3 177.3	(X)	589.4	(X)
Automobiles, trucks, etc.	143.8	3	65.0	3	45.7	11
Computers and peripheral	834.2	1	547.0	1	62.6	8
All other	7 799.6	1	2 565.3	1	481.1	2
Adjustment ratio ²	1.2	(X)	1.2	(X)	1.3	(X)
Cost of materials, components, parts, etc., used	187 391.6	(X)	31 649.1	(X)	12 361.6	(X)
Materials purchased or transferred from foreign sources ..	19 221.7	1	2 289.8	3	1 793.6	6
Materials purchased or transferred from domestic sources	168 169.9	1	29 359.3	1	10 568.0	1
Adjustment ratio ²	1.5	(X)	1.4	(X)	1.7	(X)

¹For description of relative standard error of estimates, see Qualification of the Data in appendixes.

²Measure of extent to which respondents reported each item. Derived for each item by calculating the ratio of weighted employment for those sample establishments that reported the specific inquiry to weighted total employment for all sample establishments classified in industry. (See appendixes for explanation of sample weight.)

³Detail has been adjusted upwards to account for nonresponse. Inverse of the ratio shown represents a measure of the response to the inquiry. (See appendixes for further explanation.)

Table 4. Major Group Statistics by Employment-Size Class of Establishment: 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Major group and employment-size class	E ¹	All establishments ²	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	End-of-year inventories (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
All Industries	-	358 945	17 716.6	428 449.0	12 242.7	24 300.6	251 432.6	1 165 746.8	1 319 803.1	2 475 901.0	78 647.8	332 613.9
Establishments with an average of—												
1 to 4 employees	E7	116 855	224.6	3 785.2	165.6	308.4	2 339.7	10 123.9	10 067.1	20 296.9	1 155.5	2 219.7
5 to 9 employees	E6	62 730	422.8	7 412.4	302.6	579.6	4 638.9	18 275.2	17 478.2	35 751.0	876.2	3 946.3
10 to 19 employees	E3	58 546	804.5	15 315.7	571.0	1 102.2	9 398.6	36 197.1	35 909.4	72 000.1	1 864.1	8 302.0
20 to 49 employees	E2	57 793	1 801.3	36 370.2	1 285.0	2 509.8	21 728.8	87 242.7	94 739.2	181 663.1	4 844.8	21 534.7
50 to 99 employees	E1	28 241	1 973.3	41 056.8	1 417.7	2 806.6	24 565.6	105 168.5	124 206.9	228 537.3	5 868.1	29 182.8
100 to 249 employees	-	21 963	3 387.0	72 766.0	2 443.3	4 877.1	44 349.2	198 423.2	240 203.4	435 309.2	12 571.0	57 740.4
250 to 499 employees	-	7 895	2 722.5	60 737.2	1 971.2	3 929.7	37 648.2	177 703.0	201 779.5	378 439.0	11 254.4	51 343.2
500 to 999 employees	-	3 211	2 181.0	53 712.7	1 555.3	3 114.4	33 193.0	166 495.8	185 971.4	351 196.4	11 653.0	45 568.2
1,000 to 2,499 employees	-	1 290	1 895.4	54 954.0	1 237.6	2 467.0	31 657.3	163 211.4	185 316.2	347 411.3	12 659.0	41 515.4
2,500 employees or more	-	421	2 304.3	82 339.0	1 293.4	2 605.5	41 913.1	204 906.0	224 131.9	425 296.6	15 901.6	71 260.8
Covered by administrative records ⁴	E9	154 826	701.6	10 320.0	500.5	921.1	6 197.5	25 233.1	24 154.8	49 387.8	1 100.5	6 181.1
Major Group 20, Food and Kindred Products	-	20 583	1 448.8	30 267.5	1 029.1	2 019.2	18 899.2	121 602.9	208 755.1	329 725.4	7 197.5	25 305.4
Establishments with an average of—												
1 to 4 employees	E7	4 968	8.9	133.7	6.3	11.0	78.3	655.4	1 077.5	1 745.7	25.5	118.1
5 to 9 employees	E6	2 758	18.8	264.6	12.8	23.0	157.4	1 070.9	2 248.4	3 322.4	46.6	245.2
10 to 19 employees	E4	3 169	43.9	708.8	29.3	54.5	412.3	2 567.6	6 025.0	8 607.8	144.1	635.3
20 to 49 employees	E1	3 731	119.4	2 181.4	81.0	155.3	1 274.6	7 851.6	18 490.2	26 286.7	447.0	1 988.9
50 to 99 employees	-	2 337	165.5	3 296.9	112.9	223.3	1 945.0	13 443.6	29 808.8	43 083.1	778.8	3 429.2
100 to 249 employees	-	2 236	349.5	7 427.5	235.1	468.6	4 329.5	29 194.8	54 346.6	83 279.7	1 800.1	6 920.8
250 to 499 employees	-	892	307.1	6 564.4	215.0	426.0	4 017.1	26 592.5	37 679.2	64 214.4	1 634.4	5 745.3
500 to 999 employees	-	368	246.6	5 427.0	187.6	364.9	3 675.3	24 208.2	28 289.0	52 465.9	1 230.4	3 690.0
1,000 to 2,499 employees	-	113	153.9	3 265.9	125.6	247.1	2 434.9	12 413.6	26 972.8	39 313.9	79.9	1 989.7
2,500 employees or more	-	11	35.3	997.4	23.4	45.5	574.8	3 604.6	3 817.6	7 399.8	328.7	542.9
Covered by administrative records ⁴	E9	8 117	49.5	567.2	33.8	56.5	333.2	2 077.7	3 817.6	5 895.2	85.0	418.4
Major Group 21, Tobacco Products	-	137	44.7	1 485.6	32.7	61.3	1 010.5	14 263.8	6 490.7	20 757.1	464.3	5 562.0
Establishments with an average of—												
1 to 4 employees	E9	34	.1	.7	-	(Z)	.4	1.8	4.7	6.5	-	(Z)
5 to 9 employees	E6	9	.3	2.6	.1	.2	1.5	10.5	19.7	30.2	.3	7.8
10 to 19 employees	E4	11	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20 to 49 employees	E3	16	6	10.6	.4	.8	6.2	23.7	53.3	77.4	2.0	35.7
50 to 99 employees	-	17	1.2	27.9	.9	1.9	16.9	93.1	392.6	484.9	18.0	95.4
100 to 249 employees	-	26	8.8	175.9	6.6	13.2	114.0	1 053.2	1 091.9	2 142.3	20.7	295.9
250 to 499 employees	-	12	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
500 to 999 employees	-	4	33.9	1 267.7	24.7	45.3	871.4	13 081.3	4 928.6	18 015.8	423.1	5 126.9
1,000 to 2,499 employees	-	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2,500 employees or more	-	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records ⁴	E9	46	.2	1.8	.1	.2	1.0	4.9	17.3	22.2	.2	4.6
Major Group 22, Textile Mill Products	-	6 065	672.0	11 409.6	575.1	1 175.6	8 728.4	25 660.1	37 565.5	62 786.4	2 027.7	7 642.8
Establishments with an average of—												
1 to 4 employees	E8	1 193	2.3	37.9	2.0	3.7	25.8	81.2	130.2	211.1	4.0	26.6
5 to 9 employees	E8	637	4.4	67.9	3.6	6.7	47.3	148.5	223.4	370.3	7.1	44.5
10 to 19 employees	E5	822	98.9	1 577.5	81.8	160.3	1 101.8	3 483.3	4 677.6	8 117.8	232.5	970.2
20 to 49 employees	E3	1 093	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
50 to 99 employees	E1	743	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
100 to 249 employees	-	819	132.5	2 224.7	112.5	229.6	1 652.3	5 350.0	7 931.5	13 198.8	400.3	1 428.9
250 to 499 employees	-	464	163.8	2 810.6	141.9	292.0	2 175.2	6 266.5	8 961.1	15 074.8	553.0	1 682.6
500 to 999 employees	-	222	149.8	2 623.9	130.2	275.0	2 086.1	6 020.1	8 783.8	14 686.2	451.2	1 834.4
1,000 to 2,499 employees	-	65	90.0	1 549.9	77.4	157.7	1 209.7	3 385.0	5 567.9	8 943.2	297.8	1 208.8
2,500 employees or more	-	7	30.2	517.1	25.6	50.5	430.4	925.5	1 290.0	2 184.3	81.8	446.9
Covered by administrative records ⁴	E9	2 149	16.7	208.6	14.2	25.7	151.3	425.6	687.0	1 112.6	22.9	129.1
Major Group 23, Apparel and Other Textile Products	E1	23 168	1 080.6	13 903.6	911.5	1 615.5	9 879.2	32 515.6	32 005.5	64 242.6	736.4	8 974.0
Establishments with an average of—												
1 to 4 employees	E6	6 837	12.9	177.3	11.0	17.9	116.0	436.1	740.5	1 176.9	9.5	139.3
5 to 9 employees	E5	3 284	71.6	964.8	57.1	94.2	617.9	2 271.5	2 586.6	4 853.6	40.0	636.2
10 to 19 employees	E3	3 527	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20 to 49 employees	E2	4 365	137.6	1 751.4	113.6	189.2	1 147.9	3 946.8	4 015.3	7 939.2	69.1	1 011.7
50 to 99 employees	E1	2 390	168.2	2 035.5	141.8	245.9	1 401.5	4 504.4	4 685.5	9 137.1	89.2	1 271.4
100 to 249 employees	-	1 883	296.4	3 523.6	252.3	451.3	2 536.2	7 943.5	7 170.4	15 046.6	147.7	2 130.5
250 to 499 employees	-	668	226.1	2 792.1	194.1	355.0	2 062.5	6 745.5	6 152.5	12 871.0	166.4	1 917.9
500 to 999 employees	-	180	118.6	1 638.2	98.9	178.5	1 175.8	4 511.3	4 214.2	8 654.2	99.4	1 302.0
1,000 to 2,499 employees	-	32	49.3	1 020.7	42.8	83.6	821.3	2 156.5	2 440.6	4 564.0	115.1	565.2
2,500 employees or more	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records ⁴	E9	8 746	39.9	400.8	33.9	50.9	278.7	869.3	998.5	1 867.7	17.3	243.9
Major Group 24, Lumber and Wood Products	E1	33 987	698.4	12 706.5	581.3	1 151.2	9 523.7	28 664.6	41 258.8	69 746.7	1 825.2	7 229.8
Establishments with an average of—												
1 to 4 employees	E8	14 562	27.0	388.3	24.4	42.0	292.6	883.3	1 374.2	2 262.5	58.3	171.6
5 to 9 employees	E5	6 702	44.8	643.9	37.0	67.0	491.2	1 492.7	1 992.7	3 483.4	115.7	263.1
10 to 19 employees	E3	5 353	72.6	1 112.6	59.3	110.0	845.8	2 502.6	3 213.7	5 703.6	172.8	522.8
20 to 49 employees	E2	4 160	245.9	4 231.9	201.5	392.6	3 055.4	9 461.9	13 939.3	23 322.5	549.1	2 601.0
50 to 99 employees	E1	1 702	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
100 to 249 employees	E1	1 195	178.5	3 509.3	149.4	314.8	2 644.8	7 999.2	12 116.2	20 081.2	510.1	2 077.1
250 to 499 employees	-	260	87.6	1 800.3	74.6	153.0	1 405.4	4 045.4	5 857.7	9 878.6	272.2	987.1
500 to 999 employees	-	47	29.9	632.6	25.1	51.6	492.8	1 408.4	1 792.6	3 192.2	112.5	426.8
1,000 to 2,499 employees	-	4	12.1	387.7	10.0	20.3	295.6	871.1	972.4	1 822.7	34.5	160.4
2,500 employees or more	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records ⁴	E9	16 616	51.7	594.3	44.9	74.5	439.7	1 262.1	2 052.9	3 315.0	71.2	263.2
Major Group 25, Furniture and Fixtures	E1	11 636	510.8	9 082.1	409.8	804.8	6 253.1	20 310.4	17 324.0	37 461.9	894.9	5 406.8
Establishments with an average of—												
1 to 4 employees	E8	3 824	7.4	111.6	6.4	11.8	77.7	249.5	209.3	458.7	8.8	62.5
5 to 9 employees	E7	1 940	13.0	197.6	10.2	19.5	136.0	419.5	344.0	761.4	13.6	99.3
10 to 19 employees	E4	1 800	24.9	398.0	19.4	37.2	266.5	813.9	699.2	1 507.3	26.6	188.2
20 to 49 employees	E2	1 904	60.0	1 027.8	47.0	90.8	683.9	2 146.9	1 892.8	4 014.4	82.3	525.1
50 to 99 employees	E2	978	67.5	1 190.3	53.0	104.1	786.0	2 605.1	2 260.2	4 835.2	95.1	676.4
100 to 249 employees	E1	768	118.9	2 059.6	95.0	187.4	1 417.3	4 738.3	4 296.9	8 985.2	171.2	1 336.9
250 to 499 employees	-	280	96.9	1 658.9	80.5	159.9	1 214.7	3 778.6	3 396.8	7 147.2	151.5	1 074.2

See footnotes at end of table.

Table 4. Major Group Statistics by Employment-Size Class of Establishment: 1987—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Major group and employment-size class	E ¹	All establishments ²	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	End-of-year inventories (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
Major Group 25, Furniture and Fixtures—Con.												
Establishments with an average of—Con.												
500 to 999 employees	—	112	73.8	1 339.4	59.8	119.9	926.8	3 067.2	2 464.6	5 517.4	139.1	872.2
1,000 to 2,499 employees	—	28	48.4	1 098.9	38.5	74.4	744.3	2 491.3	1 760.1	4 235.0	206.9	572.0
2,500 employees or more	—	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records ⁴	E9	5 298	23.8	300.4	19.5	35.5	207.7	641.3	544.2	1 185.5	19.6	160.2
Major Group 26, Paper and Allied Products	—	6 292	611.3	16 859.8	465.7	972.1	11 776.2	50 488.8	58 753.1	108 988.7	5 752.5	11 111.0
Establishments with an average of—												
1 to 4 employees	E8	729	5.1	93.3	3.8	7.6	59.4	233.3	304.0	537.4	32.8	66.0
5 to 9 employees	E7	531	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10 to 19 employees	E5	888	12.7	238.4	9.4	19.3	149.9	551.6	761.1	1 311.4	28.4	147.8
20 to 49 employees	E2	1 433	120.3	2 630.1	91.2	187.9	1 695.0	6 241.6	9 168.4	15 374.8	436.5	1 614.5
50 to 99 employees	—	1 018	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
100 to 249 employees	—	1 176	175.4	4 401.6	134.0	279.4	3 017.8	10 995.5	16 071.6	26 961.8	1 311.6	3 073.7
250 to 499 employees	—	308	104.5	2 982.5	80.3	170.9	2 142.0	9 747.5	10 626.4	20 317.7	838.5	2 111.6
500 to 999 employees	—	145	97.9	3 173.5	75.4	158.7	2 300.2	11 491.5	12 139.9	23 595.9	1 536.1	2 157.2
1,000 to 2,499 employees	—	63	95.2	3 340.4	71.7	148.2	2 411.9	11 227.8	9 681.8	20 889.8	1 548.6	1 940.2
2,500 employees or more	—	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records ⁴	E9	1 732	16.7	273.3	12.6	25.8	177.8	611.9	853.4	1 465.4	32.5	173.4
Major Group 27, Printing and Publishing	E1	61 791	1 494.0	33 440.0	797.1	1 537.6	15 658.9	90 162.2	46 371.9	136 195.6	4 908.4	9 940.6
Establishments with an average of—												
1 to 4 employees	E8	26 999	52.1	827.9	31.1	60.8	442.6	2 084.3	1 218.9	3 303.1	81.2	226.5
5 to 9 employees	E5	13 006	86.2	1 422.2	53.9	104.0	802.7	3 268.4	1 825.8	5 091.6	136.8	326.0
10 to 19 employees	E3	9 170	124.2	2 311.6	75.9	146.7	1 262.9	5 035.9	2 772.2	7 804.6	237.7	502.7
20 to 49 employees	E2	7 090	218.3	4 591.9	130.3	251.4	2 407.7	10 518.5	5 775.7	16 261.8	504.2	1 083.7
50 to 99 employees	E2	2 896	200.5	4 430.5	117.5	229.5	2 300.9	10 743.3	6 323.5	10 703.8	532.8	1 280.5
100 to 249 employees	E1	1 787	267.9	6 097.6	153.4	298.1	3 114.7	15 863.3	9 444.6	25 248.2	970.5	2 010.2
250 to 499 employees	E1	518	174.8	4 103.7	88.8	170.6	1 846.2	12 041.2	6 509.6	18 491.6	620.2	1 568.3
500 to 999 employees	—	197	134.8	3 247.7	64.6	124.8	1 391.6	11 297.6	4 772.2	15 952.3	650.4	1 440.1
1,000 to 2,499 employees	E1	111	163.1	4 307.9	62.0	117.4	1 498.1	13 039.5	5 741.7	18 760.7	764.7	1 197.5
2,500 employees or more	—	17	72.2	2 099.0	19.6	34.1	591.5	6 270.2	1 987.7	8 243.9	409.9	305.1
Covered by administrative records ⁴	E9	30 926	99.8	1 316.8	56.6	107.2	666.3	3 311.2	1 824.6	5 135.8	118.5	339.1
Major Group 28, Chemicals and Allied Products	—	12 039	814.0	25 016.3	462.9	944.7	12 312.5	120 777.6	109 231.1	229 546.1	8 710.6	26 387.5
Establishments with an average of—												
1 to 4 employees	E4	3 051	6.2	129.9	3.7	7.1	66.1	934.4	990.3	1 995.9	34.4	196.9
5 to 9 employees	E5	2 022	114.1	2 821.7	65.1	132.0	1 346.8	12 550.1	14 464.1	26 991.5	669.1	3 099.7
10 to 19 employees	E3	2 071	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20 to 49 employees	E1	2 269	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
50 to 99 employees	—	1 114	77.3	2 086.2	44.3	90.3	1 007.7	9 570.8	11 096.9	20 631.5	664.2	2 474.8
100 to 249 employees	—	890	137.5	3 982.1	80.7	167.0	2 035.1	19 803.8	22 417.2	42 121.7	1 529.5	4 911.2
250 to 499 employees	—	332	115.5	3 557.2	70.0	143.5	1 893.0	21 810.0	17 923.1	39 732.7	1 369.7	4 619.7
500 to 999 employees	—	174	119.6	3 891.9	75.2	154.7	2 235.6	19 960.7	19 290.2	39 144.6	1 532.7	4 549.5
1,000 to 2,499 employees	—	93	141.7	4 799.6	78.6	163.0	2 270.7	24 489.0	16 263.0	40 477.8	1 753.1	4 489.7
2,500 employees or more	—	23	102.2	3 748.0	45.2	87.2	1 457.6	11 658.7	6 786.2	18 450.3	1 558.0	2 046.0
Covered by administrative records ⁴	E9	4 237	25.0	451.8	14.4	27.7	217.4	2 060.3	1 738.9	3 799.2	90.8	424.7
Major Group 29, Petroleum and Coal Products	—	2 232	115.9	3 996.2	76.4	158.0	2 458.7	18 518.3	112 776.8	130 414.0	2 340.6	9 797.1
Establishments with an average of—												
1 to 4 employees	E3	697	1.7	46.1	1.2	2.5	31.5	288.3	675.5	967.0	24.0	50.3
5 to 9 employees	E3	487	3.3	87.7	2.2	4.5	55.9	494.1	1 119.2	1 608.6	27.7	94.0
10 to 19 employees	E3	295	4.0	107.5	2.7	5.4	64.0	513.3	1 048.0	1 554.4	30.4	109.2
20 to 49 employees	E2	357	11.0	308.1	6.7	13.8	163.0	1 268.9	3 723.0	4 971.7	85.5	382.3
50 to 99 employees	E1	167	32.4	1 005.2	21.6	44.7	610.3	3 763.2	17 739.9	21 401.2	422.7	1 802.1
100 to 249 employees	—	134	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
250 to 499 employees	—	47	38.3	1 438.3	25.2	53.2	913.0	6 527.7	56 315.8	62 375.3	1 145.0	4 809.6
500 to 999 employees	—	32	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1,000 to 2,499 employees	—	16	25.1	1 003.4	16.8	33.9	621.1	5 662.8	32 155.5	37 535.6	605.4	2 549.5
Covered by administrative records ⁴	E9	328	1.5	29.3	.9	1.8	17.3	116.4	227.5	343.8	5.8	22.9
Major Group 30, Rubber and Miscellaneous Plastics Products	E1	14 589	831.4	17 581.4	643.5	1 283.4	11 697.2	44 436.8	42 516.5	86 634.3	3 410.3	9 982.5
Establishments with an average of—												
1 to 4 employees	E9	2 955	5.7	103.6	4.6	8.8	66.5	263.8	254.4	518.1	15.4	53.2
5 to 9 employees	E7	1 933	13.1	234.2	10.2	19.7	152.2	588.0	547.4	1 134.4	32.4	118.9
10 to 19 employees	E4	2 399	33.3	605.1	25.0	48.7	383.1	1 504.7	1 441.9	2 936.6	104.6	304.4
20 to 49 employees	E2	3 254	103.6	1 922.7	79.1	155.6	1 202.5	4 805.9	4 946.8	9 723.5	355.4	1 007.8
50 to 99 employees	E1	2 001	140.5	2 682.6	109.5	217.3	1 729.0	6 876.0	7 700.6	14 503.1	540.9	1 658.1
100 to 249 employees	E1	1 439	220.3	4 346.0	172.6	346.1	2 873.4	11 277.4	11 134.7	22 323.2	887.2	2 595.9
250 to 499 employees	—	432	147.2	3 064.6	114.7	229.4	2 083.3	7 721.5	6 847.5	14 537.4	617.6	1 802.5
500 to 999 employees	—	125	83.1	1 915.8	62.9	129.5	1 281.1	4 722.0	4 136.5	8 844.2	409.3	1 216.8
1,000 to 2,499 employees	—	45	84.8	2 706.8	65.0	128.4	1 925.8	6 677.4	5 506.7	12 113.8	447.4	1 225.1
2,500 employees or more	—	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records ⁴	E9	5 177	31.0	463.3	24.3	46.0	301.7	1 128.4	1 061.4	2 189.9	65.4	225.2
Major Group 31, Leather and Leather Products	—	2 198	129.0	1 830.6	109.0	205.9	1 301.5	4 377.9	4 755.0	9 082.4	100.8	1 572.9
Establishments with an average of—												
1 to 4 employees	E7	662	3.3	43.2	2.8	4.6	28.3	100.3	143.0	242.4	1.6	39.9
5 to 9 employees	E7	301	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10 to 19 employees	E5	320	4.4	59.0	3.6	6.3	39.2	122.5	147.6	273.5	3.2	44.9
20 to 49 employees	E1	351	11.1	153.2	9.1	16.5	104.4	336.6	393.3	731.6	6.1	130.8
50 to 99 employees	—	220	47.2	682.4	39.8	75.8	485.7	1 613.9	1 914.6	3 508.4	40.6	595.7
100 to 249 employees	—	196	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
250 to 499 employees	—	123	44.5	597.0	38.9	73.8	464.0	1 403.7	1 432.2	2 804.8	26.9	424.6
500 to 999 employees	—	22	13.8	214.1	11.3	22.3	137.9	587.5	535.4	1 130.8	15.9	221.2
1,000 to 2,499 employees	—	3	4.7	81.7	3.4	6.8	41.9	213.3	188.8	390.9	6.4	115.8
Covered by administrative records ⁴	E9	1 095	6.6	74.4	5.5	9.0	51.2	157.3	202.3	359.6	3.0	60.6

See footnotes at end of table.

Table 4. Major Group Statistics by Employment-Size Class of Establishment: 1987—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Major group and employment-size class	E ¹	All establishments ²	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	End-of-year inventories (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
Major Group 32, Stone, Clay, and Glass Products	E1	16 191	523.7	12 349.1	404.8	832.6	8 794.8	33 383.1	28 142.8	61 476.6	2 417.3	7 031.4
Establishments with an average of—												
1 to 4 employees	E7	4 796	9.4	163.4	7.6	14.4	113.5	473.5	502.6	975.2	23.5	79.4
5 to 9 employees	E5	2 998	65.2	1 292.2	48.6	99.3	892.8	3 401.3	3 584.8	6 979.5	212.3	545.4
10 to 19 employees	E2	3 263	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20 to 49 employees	E1	2 966	90.5	1 986.0	66.6	137.7	1 318.0	5 014.9	5 147.5	10 131.8	336.7	889.1
50 to 99 employees	E1	1 130	77.5	1 753.6	58.7	122.5	1 184.6	4 488.6	4 265.4	8 749.8	312.8	900.2
100 to 249 employees	-	696	104.6	2 497.7	81.1	169.4	1 762.4	6 899.4	5 853.5	12 737.3	511.7	1 651.0
250 to 499 employees	-	213	74.5	1 845.9	60.1	121.4	1 379.3	5 374.1	3 799.7	9 142.6	319.8	1 235.3
500 to 999 employees	-	107	70.5	1 880.4	57.7	117.8	1 461.4	5 164.5	3 483.5	8 677.7	466.4	1 104.9
1,000 to 2,499 employees	-	21	31.4	929.8	24.4	50.2	682.8	2 566.7	1 505.7	4 082.6	234.2	626.2
2,500 employees or more	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records ⁴	E9	5 895	25.4	374.8	19.7	37.9	254.2	991.1	898.8	1 889.9	49.7	188.6
Major Group 33, Primary Metal Industries	-	6 661	701.1	19 777.3	541.5	1 114.0	14 162.8	46 121.1	74 692.3	120 248.2	3 850.9	18 977.6
Establishments with an average of—												
1 to 4 employees	E8	1 133	2.3	44.4	1.8	3.4	29.4	104.9	158.0	263.8	12.4	54.6
5 to 9 employees	E6	799	20.1	405.5	15.1	30.3	270.0	902.6	1 190.7	2 095.3	51.3	270.8
10 to 19 employees	E4	1 042	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20 to 49 employees	E2	1 422	45.3	979.5	34.9	70.5	657.4	2 205.2	3 231.6	5 402.2	117.5	711.2
50 to 99 employees	E1	834	59.0	1 356.3	45.2	92.5	902.6	3 196.3	5 113.7	8 299.7	185.6	1 271.6
100 to 249 employees	-	862	134.1	3 237.6	103.6	214.8	2 249.8	7 741.7	13 840.3	21 454.3	483.1	3 071.7
250 to 499 employees	-	328	114.0	3 003.1	88.7	185.1	2 129.7	7 012.8	12 312.9	19 296.2	550.7	2 992.6
500 to 999 employees	-	149	102.0	3 001.3	77.6	158.3	2 137.6	7 305.6	12 552.7	19 771.5	547.1	3 022.1
1,000 to 2,499 employees	-	65	99.5	3 275.6	77.2	157.0	2 424.8	7 614.0	13 186.9	20 675.2	886.2	3 755.3
2,500 employees or more	-	27	124.7	4 474.1	97.6	202.2	3 361.4	10 037.9	13 105.4	22 990.0	1 016.9	3 827.6
Covered by administrative records ⁴	E9	1 817	12.2	203.9	9.4	18.3	141.5	418.3	583.4	1 001.7	21.0	137.0
Major Group 34, Fabricated Metal Products	E1	36 092	1 458.0	34 999.7	1 077.8	2 183.4	22 781.3	74 957.3	72 668.5	147 366.1	4 816.4	22 554.4
Establishments with an average of—												
1 to 4 employees	E8	8 882	17.9	319.8	13.6	25.7	203.5	729.4	661.2	1 393.5	28.1	189.1
5 to 9 employees	E6	6 328	140.0	2 763.5	103.9	205.6	1 785.8	5 860.8	4 907.3	10 715.2	268.8	1 399.6
10 to 19 employees	E3	6 998	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20 to 49 employees	E2	7 498	232.7	4 967.6	172.8	349.5	3 143.5	10 302.5	9 581.6	19 903.6	487.1	2 663.3
50 to 99 employees	E1	3 353	232.2	5 211.7	172.4	352.0	3 311.2	11 223.9	11 655.6	22 747.4	573.0	3 373.5
100 to 249 employees	-	2 145	326.0	7 582.5	241.5	489.4	4 908.5	17 236.9	19 289.5	36 530.8	964.6	6 159.1
250 to 499 employees	-	629	214.7	5 089.8	158.3	319.0	3 297.1	11 656.5	11 609.4	23 243.7	667.7	3 916.2
500 to 999 employees	-	175	118.4	2 950.5	88.3	180.6	1 964.6	6 714.0	5 671.0	12 388.5	420.8	2 206.1
1,000 to 2,499 employees	-	62	97.2	3 044.4	70.1	139.6	2 003.6	6 297.9	4 602.7	10 964.0	355.4	1 800.8
2,500 employees or more	-	22	78.9	3 069.8	56.9	122.0	2 163.6	4 690.0	4 690.0	9 479.5	1 050.8	846.7
Covered by administrative records ⁴	E9	13 397	67.5	1 090.2	50.6	97.1	701.8	2 321.4	2 089.3	4 410.7	87.1	604.0
Major Group 35, Industrial Machinery and Equipment	-	52 091	1 844.4	50 553.1	1 142.8	2 313.7	26 092.6	118 187.4	99 569.5	217 669.9	6 954.6	42 277.7
Establishments with an average of—												
1 to 4 employees	E8	18 124	107.3	2 148.5	79.1	157.8	1 401.5	4 279.1	2 377.5	6 666.0	201.7	1 117.7
5 to 9 employees	E6	10 563	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10 to 19 employees	E3	9 555	130.6	2 959.6	92.9	186.4	1 846.1	5 634.2	3 336.7	8 980.0	306.2	1 508.1
20 to 49 employees	E2	7 683	233.8	5 741.4	162.3	335.3	3 457.3	11 327.6	7 321.6	19 017.3	534.7	3 405.8
50 to 99 employees	E1	3 006	207.8	5 358.7	136.8	282.6	2 994.3	11 329.3	8 263.8	19 514.3	544.9	4 197.0
100 to 249 employees	-	1 972	301.4	7 869.7	188.9	385.4	4 145.5	17 515.6	14 801.0	32 337.8	871.6	7 640.6
250 to 499 employees	-	677	233.8	6 168.7	143.7	286.2	3 237.4	13 642.4	13 334.0	27 272.7	773.0	6 435.1
500 to 999 employees	-	317	219.8	6 312.0	132.7	265.9	3 207.4	18 717.4	15 999.4	34 541.3	818.1	6 574.6
1,000 to 2,499 employees	-	154	217.0	6 588.0	122.2	238.4	3 107.2	18 172.3	14 554.9	32 562.1	1 287.3	5 402.1
2,500 employees or more	-	40	192.7	7 406.4	84.3	175.6	2 696.0	17 569.6	19 280.6	36 778.4	1 617.1	5 996.7
Covered by administrative records ⁴	E9	23 976	98.9	1 720.2	69.3	135.5	1 034.9	3 607.9	2 497.3	6 105.2	157.8	1 193.8
Major Group 36, Electronic and Other Electric Equipment	-	15 922	1 564.7	38 738.2	999.6	1 959.3	19 716.8	95 815.3	76 195.1	171 286.4	6 875.1	29 088.1
Establishments with an average of—												
1 to 4 employees	E8	4 009	22.3	432.6	14.8	28.1	228.6	1 038.5	786.3	1 825.8	60.4	321.5
5 to 9 employees	E8	2 153	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10 to 19 employees	E6	2 216	30.7	621.0	20.0	38.0	326.1	1 391.7	1 029.0	2 425.5	78.1	416.8
20 to 49 employees	E3	2 799	471.0	9 923.4	316.5	621.8	5 133.5	22 609.8	17 979.5	40 496.5	1 259.4	7 565.0
50 to 99 employees	E1	1 681	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
100 to 249 employees	E1	1 669	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
250 to 499 employees	-	790	277.1	6 362.2	190.5	379.3	3 579.0	16 493.7	13 086.9	29 408.3	1 113.9	5 280.6
500 to 999 employees	-	386	266.6	6 399.8	180.6	355.9	3 548.2	16 935.0	12 945.0	29 813.8	1 162.3	5 221.9
1,000 to 2,499 employees	-	162	242.8	6 607.6	151.2	294.8	3 404.1	16 967.2	13 335.9	30 262.5	1 294.5	4 519.5
2,500 employees or more	-	57	254.3	8 391.6	126.1	241.4	3 497.3	20 379.4	17 032.4	37 054.0	1 906.5	5 762.7
Covered by administrative records ⁴	E9	6 690	45.3	778.7	29.5	55.1	404.6	1 777.4	1 325.1	3 102.5	101.0	555.9
Major Group 37, Transportation Equipment	-	10 505	1 817.4	58 790.4	1 207.8	2 443.6	34 825.7	137 076.2	198 854.1	332 935.7	10 779.7	55 061.9
Establishments with an average of—												
1 to 4 employees	E8	3 101	5.6	100.3	4.3	8.5	66.5	238.0	296.6	534.3	699.5	71.2
5 to 9 employees	E7	1 542	10.3	186.9	7.7	15.2	125.1	406.3	511.9	916.1	22.9	124.4
10 to 19 employees	E6	1 593	412.4	9 251.1	308.5	619.1	6 041.3	21 091.1	23 690.5	44 324.9	1 732.6	7 755.8
20 to 49 employees	E4	1 641	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
50 to 99 employees	E2	902	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
100 to 249 employees	-	813	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
250 to 499 employees	-	424	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
500 to 999 employees	-	217	150.6	3 928.7	112.1	223.4	2 613.8	8 742.5	9 979.6	18 606.0	499.7	3 098.4
1,000 to 2,499 employees	-	122	189.9	6 510.1	137.0	278.2	4 378.0	16 230.3	26 222.3	42 462.2	1 597.6	4 476.1
2,500 employees or more	-	150	1 048.5	38 813.3	638.2	1 299.4	21 601.1	90 368.0	138 153.3	226 092.2	6 227.4	39 535.9
Covered by administrative records ⁴	E9	4 744	29.3	496.5	21.8	43.5	330.8	1 047.2	1 273.4	2 320.6	67.2	332.9

See footnotes at end of table.

Table 4. Major Group Statistics by Employment-Size Class of Establishment: 1987—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Major group and employment-size class	E ¹	All establishments ²	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	End-of-year inventories (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
Major Group 38, Instruments and Related Products	-	10 193	982.4	28 778.1	502.7	1 003.6	11 531.2	70 974.6	37 211.3	107 324.8	3 872.4	23 013.4
Establishments with an average of—												
1 to 4 employees	E8	2 989	5.7	117.4	3.4	6.9	54.7	304.1	153.7	458.2	12.9	93.9
5 to 9 employees	E8	1 681	11.3	249.8	6.6	13.1	114.8	631.1	303.2	933.6	24.3	179.9
10 to 19 employees	E6	1 521	20.9	483.1	12.1	23.8	217.5	1 169.0	612.1	1 782.0	47.6	334.3
20 to 49 employees	E3	1 676	52.8	1 248.9	30.6	60.0	552.8	2 842.9	1 540.7	4 399.3	123.4	885.1
50 to 99 employees	E2	876	61.2	1 442.3	35.9	71.9	632.9	3 449.5	2 161.3	5 595.5	149.0	1 159.3
100 to 249 employees	E1	758	118.0	2 910.6	67.6	134.3	1 234.7	6 943.7	4 579.5	11 481.6	351.4	2 640.5
250 to 499 employees	-	348	249.2	6 677.3	143.8	289.4	2 918.6	18 048.1	10 423.7	28 197.0	1 055.2	6 169.6
500 to 999 employees	-	182	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1,000 to 2,499 employees	-	112	169.0	5 386.8	78.8	156.9	1 993.1	10 957.8	5 378.0	16 284.0	636.3	4 085.5
2,500 employees or more	-	50	294.1	10 261.9	124.0	247.5	3 812.0	26 628.3	12 058.9	38 193.6	1 472.3	7 465.3
Covered by administrative records ⁴	E9	4 979	30.3	594.5	17.6	34.4	269.3	1 500.2	707.7	2 207.9	60.0	418.6
Major Group 39, Miscellaneous Manufacturing Industries	E1	16 573	374.3	6 884.2	271.7	520.8	4 028.1	17 452.9	14 665.6	32 012.0	712.2	5 697.1
Establishments with an average of—												
1 to 4 employees	E9	7 310	132.2	2 267.9	95.1	176.9	1 302.6	4 994.9	4 451.2	9 415.7	171.6	1 529.4
5 to 9 employees	E6	3 056	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10 to 19 employees	E3	2 533	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20 to 49 employees	E2	2 085	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
50 to 99 employees	E1	876	60.9	1 120.2	44.4	86.1	638.9	2 552.5	2 400.2	4 911.8	90.4	860.8
100 to 249 employees	-	499	77.0	1 459.8	56.1	108.7	837.9	3 606.9	3 179.6	6 769.8	144.1	1 226.1
250 to 499 employees	-	150	51.2	977.9	37.3	71.4	576.2	2 895.2	2 398.0	5 290.5	140.0	1 086.3
500 to 999 employees	-	50	33.1	654.7	24.5	48.7	397.3	1 958.7	1 385.7	3 351.7	117.4	608.5
1,000 to 2,499 employees	-	14	19.9	403.5	14.2	29.0	275.3	1 444.7	851.0	2 272.5	48.7	386.0
Covered by administrative records ⁴	E9	8 861	30.2	379.3	21.9	38.6	217.1	903.0	754.2	1 657.2	24.5	284.9

Note: Data for auxiliary operators are excluded from this table. Data shown as a (D) are included in underscored figures above.

¹Payroll and sales data for some single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other Government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown for those employment-size classes where estimated data based on administrative-record data account for 10 percent or more of figures shown: E1-10 to 19 percent; E2-20 to 29 percent; E3-30 to 39 percent; E4-40 to 49 percent; E5-50 to 59 percent; E6-60 to 69 percent; E7-70 to 79 percent; E8-80 to 89 percent; E9-90 percent or more.

²Includes establishments with payroll at any time during year.

³Aggregate of cost of materials and value of shipments includes extensive duplication since products of some industries are used as materials by others.

⁴Report forms were not mailed to small single-unit companies with up to 20 employees (cutoff varied by industry). Payroll and sales data for 1987 were obtained from administrative records supplied by other agencies of the Federal Government. These data were then used in conjunction with industry averages to estimate the items shown. Data are also included in respective size classes shown.

Table 5. Employment Statistics for Operating Manufacturing Establishments and Auxiliaries by Major Group: 1987 and Earlier Census Years

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Major group and year	All establishments		Operating manufacturing establishments		Auxiliaries	
		Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)
	All industries						
	1987..	18 950.3	475 651.0	17 716.6	428 449.0	1 233.6	47 201.7
	1982..	19 094.1	379 626.5	17 818.1	341 406.2	1 276.0	38 220.4
	1977..	19 590.1	264 013.1	18 515.9	242 031.9	1 074.2	21 981.2
	1972..	19 028.7	174 205.5	18 034.4	160 433.2	994.3	13 772.3
20	Food and kindred products						
	1987..	1 557.1	34 223.6	1 448.8	30 267.5	108.3	3 956.1
	1982..	1 596.6	29 118.6	1 487.7	26 087.5	108.9	3 031.1
	1977..	1 622.3	20 472.7	1 520.2	18 543.6	102.1	1 929.1
	1972..	1 663.0	14 099.6	1 569.3	12 921.8	93.7	1 177.8
21	Tobacco products						
	1987..	63.5	2 170.5	44.7	1 485.6	18.8	684.9
	1982..	72.1	1 716.7	57.9	1 323.5	14.2	393.3
	1977..	68.6	897.6	60.6	750.7	8.0	146.9
	1972..	74.3	595.7	66.3	502.1	8.0	93.6
22	Textile mill products						
	1987..	698.8	12 252.4	672.0	11 409.6	26.9	842.8
	1982..	750.3	9 840.1	717.4	9 046.1	32.9	794.0
	1977..	908.6	8 434.4	875.4	7 881.4	33.2	553.0
	1972..	983.8	6 413.0	952.6	6 051.0	31.2	362.0
23	Apparel and other textile products						
	1987..	1 113.8	14 774.0	1 080.6	13 903.6	33.2	870.4
	1982..	1 223.8	12 881.9	1 189.0	12 128.8	34.8	753.1
	1977..	1 361.8	10 062.2	1 334.3	9 658.6	27.5	403.6
	1972..	1 394.0	7 478.1	1 368.3	7 212.0	25.7	266.1
24	Lumber and wood products						
	1987..	712.5	13 200.9	698.4	12 706.5	14.1	494.4
	1982..	598.3	9 051.6	576.4	8 444.5	21.9	607.1
	1977..	706.9	7 694.9	692.4	7 424.7	14.5	270.2
	1972..	703.4	5 131.3	691.0	4 985.6	12.4	145.7
25	Furniture and fixtures						
	1987..	522.6	9 433.6	510.8	9 082.1	11.8	351.5
	1982..	446.6	6 336.3	436.0	6 083.7	10.6	252.6
	1977..	477.8	4 588.6	463.8	4 448.5	9.0	140.1
	1972..	468.5	3 286.3	462.0	3 205.4	6.5	80.9
26	Paper and allied products						
	1987..	654.7	18 718.2	611.3	16 859.8	43.5	1 858.3
	1982..	636.9	14 857.1	605.6	12 947.5	31.3	1 909.6
	1977..	666.3	9 845.3	628.7	8 942.9	37.6	902.4
	1972..	667.8	6 465.5	633.4	5 992.1	34.4	473.4

See footnotes at end of table.

Table 5. Employment Statistics for Operating Manufacturing Establishments and Auxiliaries by Major Group: 1987 and Earlier Census Years—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Major group and year	All establishments		Operating manufacturing establishments		Auxiliaries	
		Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)
27	Printing and publishing ----- 1987..	1 578.1	35 850.4	1 494.0	33 440.0	84.1	2 410.4
	1982..	1 340.1	23 912.1	1 291.8	22 706.9	48.3	1 205.2
	1977..	1 131.1	14 645.9	1 092.2	14 024.5	38.9	621.4
	1972..	1 085.5	10 162.1	1 056.5	9 831.2	29.0	330.9
28	Chemicals and allied products ----- 1987..	1 028.4	34 039.1	814.0	25 016.3	214.4	9 022.7
	1982..	1 079.1	27 462.5	872.6	20 835.7	206.5	6 626.8
	1977..	1 061.6	17 630.7	880.2	13 831.8	181.4	3 798.9
	1972..	995.0	10 906.2	838.5	8 730.5	158.5	2 177.7
29	Petroleum and coal products ----- 1987..	153.6	5 669.0	115.9	3 996.2	37.7	1 672.9
	1982..	227.6	6 906.9	151.6	4 338.7	76.0	2 568.2
	1977..	212.1	4 258.2	146.8	2 696.2	65.3	1 562.0
	1972..	209.5	2 633.7	139.5	1 637.5	70.0	996.2
30	Rubber and miscellaneous plastics products ----- 1987..	863.3	18 904.2	831.4	17 581.4	31.9	1 322.8
	1982..	713.4	12 568.8	681.7	11 596.8	31.7	972.0
	1977..	746.5	8 994.3	721.3	8 536.0	25.2	458.3
	1972..	635.1	5 381.9	617.7	5 165.2	17.4	216.7
31	Leather and leather products ----- 1987..	135.7	1 989.2	129.0	1 830.6	6.7	158.6
	1982..	208.8	2 423.3	199.8	2 218.5	9.0	204.8
	1977..	253.3	1 992.0	242.5	1 859.7	10.8	132.3
	1972..	285.5	1 706.2	273.4	1 589.3	12.1	116.9
32	Stone, clay, and glass products ----- 1987..	554.3	13 550.5	523.7	12 349.1	30.6	1 201.4
	1982..	573.3	11 262.2	531.5	10 096.7	41.8	1 165.5
	1977..	654.8	8 740.3	613.7	7 943.1	41.1	797.2
	1972..	660.7	6 035.1	623.2	5 546.9	37.5	488.2
33	Primary metal industries ----- 1987..	729.3	20 818.0	701.1	19 777.3	28.2	1 040.7
	1982..	901.6	21 998.4	854.1	20 602.7	47.5	1 395.7
	1977..	1 160.4	19 771.0	1 113.6	18 745.0	46.8	1 031.0
	1972..	1 185.3	12 784.8	1 142.8	12 166.5	42.5	618.3
34	Fabricated metal products ¹ ----- 1987..	1 499.6	36 545.0	1 458.0	34 999.7	41.6	1 545.3
	1982..	1 511.2	29 721.0	1 459.7	28 282.6	51.5	1 438.4
	1977..	1 605.8	22 022.4	1 555.7	21 035.9	50.1	986.5
	1972..	1 533.6	14 346.0	1 493.3	13 802.6	40.3	525.4
35	Industrial machinery and equipment ----- 1987..	2 008.3	56 646.2	1 844.4	50 553.1	163.8	6 093.1
	1982..	2 326.4	50 972.6	2 188.7	46 910.7	137.7	4 061.9
	1977..	2 176.4	32 442.3	2 083.3	30 557.5	93.1	1 884.8
	1972..	1 930.0	20 047.9	1 827.7	18 523.3	102.3	1 524.6
36	Electronic and other electric equipment ¹ ----- 1987..	1 689.4	43 544.3	1 564.7	38 738.2	124.7	4 806.1
	1982..	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	1977..	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	1972..	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
37	Transportation equipment ¹ ----- 1987..	1 957.5	64 865.4	1 817.4	58 790.4	140.2	6 074.9
	1982..	1 704.3	44 519.9	1 595.9	40 811.9	108.4	3 708.0
	1977..	1 873.7	33 314.4	1 768.2	30 673.5	105.5	2 640.9
	1972..	1 815.2	21 526.6	1 719.0	19 880.0	96.2	1 646.6
38	Instruments and related products ¹ ----- 1987..	1 042.7	31 166.3	982.4	28 778.1	60.3	2 388.2
	1982..	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	1977..	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	1972..	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
39	Miscellaneous manufacturing industries ----- 1987..	387.3	7 290.1	374.3	6 884.2	12.9	406.0
	1982..	395.7	6 010.3	382.6	5 646.9	13.1	363.4
	1977..	451.9	4 596.5	440.7	4 406.4	11.2	190.1
	1972..	456.0	3 321.1	445.6	3 184.6	10.4	136.5

¹Major Group 19, Ordnance and Accessories, was eliminated as a separate major group in 1972 and its industries were reclassified to major groups 34, 36, 37, and 38.

**Table 6. Selected Statistics for Auxiliaries by Major Group of Establishments Serviced:
1987**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Major group and auxiliaries	Estab- lish- ments (number)	Employees (1,000)	Payroll ¹ (million dollars)	1987 SIC code	Major group and auxiliaries	Estab- lish- ments (number)	Employees (1,000)	Payroll ¹ (million dollars)
	Manufacturing, total²	9 952	1 233.6	47 201.7	29	Petroleum and coal products	229	37.7	1 672.9
	Administrative and managerial	(NA)	739.3	(NA)		Administrative and managerial	(NA)	25.6	(NA)
	Research, development, and testing	(NA)	198.3	(NA)		Research, development, and testing	(NA)	6.0	(NA)
	Warehousing	(NA)	54.2	(NA)		Warehousing	(NA)	1.5	(NA)
	Electronic data processing	(NA)	64.3	(NA)		Electronic data processing	(NA)	2.6	(NA)
	Other activities, including sales	(NA)	177.6	(NA)		Other activities, including sales	(NA)	2.0	(NA)
20	Food and kindred products	1 194	108.3	3 956.1	30	Rubber and miscellaneous plastics products	393	31.9	1 322.8
	Administrative and managerial	(NA)	75.8	(NA)		Administrative and managerial	(NA)	19.5	(NA)
	Research, development, and testing	(NA)	8.7	(NA)		Research, development, and testing	(NA)	5.1	(NA)
	Warehousing	(NA)	4.3	(NA)		Warehousing	(NA)	1.9	(NA)
	Electronic data processing	(NA)	5.4	(NA)		Electronic data processing	(NA)	1.6	(NA)
	Other activities, including sales	(NA)	14.1	(NA)		Other activities, including sales	(NA)	3.8	(NA)
21	Tobacco manufactures	50	18.8	684.9	31	Leather and leather products	82	6.7	158.6
	Administrative and managerial	(NA)	10.0	(NA)		Administrative and managerial	(NA)	3.8	(NA)
	Research, development, and testing	(NA)	2.3	(NA)		Research, development, and testing	(NA)	.1	(NA)
	Warehousing	(NA)	.2	(NA)		Warehousing	(NA)	1.7	(NA)
	Electronic data processing	(NA)	.4	(NA)		Electronic data processing	(NA)	.5	(NA)
	Other activities, including sales	(NA)	5.9	(NA)		Other activities, including sales	(NA)	.6	(NA)
22	Textile mill products	304	26.9	842.8	32	Stone, clay, and glass products	529	30.6	1 201.4
	Administrative and managerial	(NA)	16.1	(NA)		Administrative and managerial	(NA)	20.2	(NA)
	Research, development, and testing	(NA)	1.6	(NA)		Research, development, and testing	(NA)	3.1	(NA)
	Warehousing	(NA)	1.9	(NA)		Warehousing	(NA)	.6	(NA)
	Electronic data processing	(NA)	2.4	(NA)		Electronic data processing	(NA)	1.5	(NA)
	Other activities, including sales	(NA)	4.9	(NA)		Other activities, including sales	(NA)	5.2	(NA)
23	Apparel and other textile products	448	33.2	870.4	33	Primary metal industries	408	28.2	1 040.7
	Administrative and managerial	(NA)	20.3	(NA)		Administrative and managerial	(NA)	19.2	(NA)
	Research, development, and testing	(NA)	.7	(NA)		Research, development, and testing	(NA)	3.1	(NA)
	Warehousing	(NA)	6.6	(NA)		Warehousing	(NA)	.6	(NA)
	Electronic data processing	(NA)	1.0	(NA)		Electronic data processing	(NA)	1.7	(NA)
	Other activities, including sales	(NA)	4.6	(NA)		Other activities, including sales	(NA)	3.6	(NA)
24	Lumber and wood products	318	14.1	494.4	34	Fabricated metal products	579	41.6	1 545.3
	Administrative and managerial	(NA)	8.7	(NA)		Administrative and managerial	(NA)	26.6	(NA)
	Research, development, and testing	(NA)	.7	(NA)		Research, development, and testing	(NA)	3.7	(NA)
	Warehousing	(NA)	1.6	(NA)		Warehousing	(NA)	2.9	(NA)
	Electronic data processing	(NA)	1.1	(NA)		Electronic data processing	(NA)	2.1	(NA)
	Other activities, including sales	(NA)	2.0	(NA)		Other activities, including sales	(NA)	6.3	(NA)
25	Furniture and fixtures	200	11.8	351.5	35	Industrial machinery and equipment	1 005	163.8	6 093.1
	Administrative and managerial	(NA)	7.9	(NA)		Administrative and managerial	(NA)	106.5	(NA)
	Research, development, and testing	(NA)	.6	(NA)		Research, development, and testing	(NA)	21.3	(NA)
	Warehousing	(NA)	.8	(NA)		Warehousing	(NA)	6.6	(NA)
	Electronic data processing	(NA)	.7	(NA)		Electronic data processing	(NA)	8.2	(NA)
	Other activities, including sales	(NA)	1.8	(NA)		Other activities, including sales	(NA)	21.2	(NA)
26	Paper and allied products	302	43.5	1 858.3	36	Electronic and other electric equipment	826	124.7	4 806.1
	Administrative and managerial	(NA)	28.7	(NA)		Administrative and managerial	(NA)	72.3	(NA)
	Research, development, and testing	(NA)	9.6	(NA)		Research, development, and testing	(NA)	18.7	(NA)
	Warehousing	(NA)	.4	(NA)		Warehousing	(NA)	5.0	(NA)
	Electronic data processing	(NA)	1.7	(NA)		Electronic data processing	(NA)	7.5	(NA)
	Other activities, including sales	(NA)	3.1	(NA)		Other activities, including sales	(NA)	21.2	(NA)
27	Printing and publishing	971	84.1	2 410.4	37	Transportation equipment	424	140.2	6 074.9
	Administrative and managerial	(NA)	52.1	(NA)		Administrative and managerial	(NA)	61.7	(NA)
	Research, development, and testing	(NA)	1.7	(NA)		Research, development, and testing	(NA)	47.7	(NA)
	Warehousing	(NA)	6.7	(NA)		Warehousing	(NA)	4.2	(NA)
	Electronic data processing	(NA)	3.4	(NA)		Electronic data processing	(NA)	8.4	(NA)
	Other activities, including sales	(NA)	20.2	(NA)		Other activities, including sales	(NA)	18.2	(NA)
28	Chemicals and allied products	1 214	214.4	9 022.7	38	Instruments and related products	322	60.3	2 388.2
	Administrative and managerial	(NA)	120.1	(NA)		Administrative and managerial	(NA)	36.2	(NA)
	Research, development, and testing	(NA)	53.6	(NA)		Research, development, and testing	(NA)	9.0	(NA)
	Warehousing	(NA)	4.3	(NA)		Warehousing	(NA)	1.8	(NA)
	Electronic data processing	(NA)	10.7	(NA)		Electronic data processing	(NA)	3.0	(NA)
	Other activities, including sales	(NA)	25.7	(NA)		Other activities, including sales	(NA)	10.3	(NA)
					39	Miscellaneous manufacturing industries	154	12.9	406.0
						Administrative and managerial	(NA)	8.0	(NA)
						Research, development, and testing	(NA)	1.0	(NA)
						Warehousing	(NA)	.6	(NA)
						Electronic data processing	(NA)	.4	(NA)
						Other activities, including sales	(NA)	2.9	(NA)

¹Total payroll data for each industry group are estimates based on reported employment and average annual salaries determined from data collected in the 1987 Enterprise Statistics series.

²Detailed establishment data exceed totals since some establishments participate in more than one activity.

CHAPTER 3. Product Class Statistics

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Table 1. Historical Statistics for Product Classes—Value Shipped by All Producers: 1987 and Earlier Years

[Million dollars. Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 product code	Product class	1987	1986 ¹	1985 ¹	1984 ¹	1983 ¹	1982	1977	1972
2011-20115	Fresh and frozen meat from animals slaughtered in this plant	41 226.8	39 177.6	38 875.9	40 763.9	39 591.5	40 522.6	27 875.7	21 703.2
20111	Beef, not canned or made into sausage	21 684.0	20 452.4	20 157.5	21 409.0	20 885.1	20 606.7	14 095.8	11 790.1
20112	Veal, not canned or made into sausage	379.4	451.7	435.1	496.3	437.9	361.1	319.3	241.5
20113	Lamb and mutton, not canned or made into sausage	379.5	215.5	242.6	243.0	215.4	270.8	329.5	330.4
20114	Pork, fresh and frozen	8 406.3	8 345.9	7 837.3	7 628.8	7 213.3	8 071.8	5 647.5	4 221.0
20115	Lard (see also code 20135)	120.2	241.8	300.6	349.3	275.4	239.6	214.1	171.0
20116	Pork, processed or cured (not canned or made into sausage) (see also code 20136)	2 941.7	2 598.8	2 680.3	2 707.0	2 681.5	3 042.0	2 095.3	1 443.3
20117	Sausages and similar products (not canned) (see also code 20137)	2 079.7	2 620.7	2 740.3	2 643.9	2 743.6	2 867.8	1 859.3	1 353.4
20118	Canned meats (except dog, cat, and baby food) (see also code 20138)	402.0	458.7	531.6	550.9	574.9	658.2	561.7	622.1
20119	Hides, skins, and pelts	1 638.4	1 305.9	1 148.1	1 307.5	964.2	867.1	807.7	580.4
2011B	Miscellaneous byproducts of meat packing plants	460.0	418.0	543.2	477.6	286.7	270.2		
20110	Fresh and frozen meats from animals slaughtered in this plant, n.s.k.	2 735.7	2 068.3	2 259.3	2 950.5	3 313.4	3 267.3	1 945.5	950.0
2013-20130	Sausages and other prepared meats	14 352.8	11 709.1	10 850.5	10 767.2	10 659.4	10 508.2	7 146.8	3 859.6
20136	Pork, not canned or made into sausage	3 127.3	2 706.6	2 452.8	2 423.6	2 410.0	2 278.5	1 683.3	970.2
20137	Sausage and similar products (not canned) (see also code 20117)	4 974.4	3 963.3	3 631.8	3 802.7	3 697.7	3 640.2	2 820.7	1 911.2
20138	Canned meats (except dog, cat, and baby food)	910.1	1 062.3	884.3	1 055.3	886.7	890.4	694.6	484.2
2013B	Other processed, frozen, or cooked meats	3 834.1	2 516.1	2 438.9	2 015.7	1 857.7	1 824.7		
20130	Sausages and other prepared meats, n.s.k.	1 506.8	1 460.8	1 442.8	1 469.9	1 807.3	1 874.4	1 948.1	494.0
2015-20150	Poultry and egg processing	14 370.9	13 120.8	11 874.8	11 607.3	10 894.2	10 110.0	6 358.4	3 597.0
20151	Young chickens (including frozen, whole or parts)	7 451.7	7 081.9	6 489.6	6 462.8	6 252.6	6 017.4	3 961.1	2 198.0
20152	Hens and/or fowl (including frozen, whole or parts)	210.7	169.3	196.5	188.5	169.0	175.6	229.5	147.8
20153	Turkeys (including frozen, whole or parts)	1 645.1	1 970.6	1 748.2	1 504.4	1 342.0	1 272.4	927.3	538.9
20154	Other poultry and small game (including frozen, whole or parts)	86.7	69.1	74.1	71.8	58.7	58.9	57.9	23.7
20155	Processed poultry and small game (except soups)	3 725.3	2 929.5	2 546.3	2 496.2	2 182.3	1 692.3	657.7	358.1
20159	Liquid, dried, and frozen eggs	495.4	571.5	490.9	494.8	373.7	329.7	312.7	156.7
20150	Poultry and egg processing, n.s.k.	756.1	328.9	329.2	388.8	515.9	563.7	212.2	173.8
2021-20210	Creamery butter	1 613.5	1 821.9	1 838.6	1 741.4	1 973.0	1 975.7	1 109.7	791.1
20210	Creamery butter	1 613.5	1 821.9	1 838.6	1 741.4	1 973.0	1 975.7	1 109.7	791.1
2022-20220	Cheese, natural and processed	10 775.6	10 653.2	9 969.2	9 743.6	9 869.0	9 486.9	5 528.1	2 753.7
20223	Natural cheese, except cottage cheese	6 414.5	6 289.8	5 664.6	5 617.3	5 824.0	5 625.6		
20224	Process cheese and related products	3 502.0	3 548.9	3 552.6	3 390.1	3 325.4	3 194.3		
20225	Cheese substitutes	294.9	270.2	209.9	190.8	239.0	239.7		
20220	Natural and process cheese and related products, n.s.k.	564.3	544.3	542.1	545.6	480.5	427.2	282.3	219.6
2023-20230	Dry, condensed, and evaporated milk products	5 839.3	5 383.6	5 334.3	5 147.2	5 352.1	5 047.6	3 086.1	1 706.2
20235	Dry milk products, except substitutes	2 423.9	2 145.3	2 156.6	2 265.9	2 499.4	2 425.4		
20236	Canned milk products (consumer type cans), except substitutes	1 004.8	1 150.1	1 296.6	1 337.6	1 325.6	1 114.7		
20237	Concentrated milk products (shipped in bulk), except substitutes	716.0	653.8	473.5	360.1	359.6	370.9		
20238	Ice cream mix and related products	624.8	630.1	664.0	569.9	527.4	531.0	293.2	227.7
20239	Dairy product substitutes	952.8	746.0	671.2	506.7	498.3	443.9	(NA)	(NA)
20230	Dry, condensed, and evaporated milk products, n.s.k.	117.1	58.3	72.4	107.0	141.8	161.7	121.0	38.5
2024-20240	Ice cream and frozen desserts	4 195.0	3 922.0	3 881.8	3 809.9	3 414.5	3 281.1	2 229.4	1 519.4
20240	Ice cream and frozen desserts	4 195.0	3 922.0	3 881.8	3 809.9	3 414.5	3 281.1	2 229.4	1 519.4
2026-20260	Fluid milk	16 884.6	16 209.1	16 082.5	15 929.4	15 656.8	15 517.4	11 602.8	7 662.7
20261	Bulk fluid milk and cream	3 160.7	2 992.9	2 936.8	2 770.3	3 013.6	3 037.6	2 123.8	1 258.9
20262	Packaged fluid milk and related products	9 893.3	10 200.8	10 046.4	9 729.9	9 231.9	9 115.0	7 345.5	5 078.9
20263	Cottage cheese	688.7	725.1	738.3	748.3	692.8	683.2	545.6	340.9
20265	Yogurt, except frozen	685.3	653.3	620.3	501.1	464.2	403.7		
20267	Products which substitute for fluid milk products	132.5	(NA)	(NA)	(NA)	(NA)	134.8		
20268	Other packaged milk products, n.e.c.	840.6	797.4	800.8	739.1	636.9	705.0		
20260	Fluid milk and related products, n.s.k.	1 483.5	839.6	939.9	1 334.0	1 618.0	1 578.7	736.3	560.9
2032-20320	Canned specialties	4 444.1	3 982.0	3 745.3	3 771.8	3 548.8	3 484.6	2 429.0	1 629.9
20321	Canned baby foods, except cereal and biscuits	652.0	481.1	566.9	590.9	612.0	596.4	401.3	346.7
20322	Canned soups, except frozen or seafood	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
20323	Canned dry beans	895.3	769.9	744.6	707.6	706.3	735.3	556.5	305.8
20324	Other canned specialties and canned nationality foods	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20320	Canned specialties, n.s.k.	145.0	134.9	156.4	165.0	135.5	117.8	(NA)	(NA)
2033-20330	Canned fruits and vegetables	12 244.4	11 208.1	10 928.0	10 636.2	9 461.1	9 255.3	6 621.4	3 922.9
20331	Canned fruits	2 084.5	1 752.4	1 763.4	1 855.9	1 557.4	1 590.6	1 289.3	828.6
20332	Canned vegetables	2 297.8	2 107.3	2 110.3	2 096.8	1 944.3	2 047.2	1 650.9	1 067.1
20333	Canned hominy and mushrooms	165.5	173.8	198.1	166.1	151.3	139.0	149.8	98.2
20335	Canned vegetable juices	310.3	301.3	294.8	323.0	276.8	270.3	251.8	155.7
20336	Catsup and other tomato sauces, pastes, etc.	3 024.4	3 171.3	2 825.1	2 675.3	2 367.6	2 174.4	1 350.0	603.3
20338	Jams, jellies, and preserves	664.1	622.3	636.5	608.9	601.1	603.0	396.9	280.3
2033A	Canned fruit juices, nectars, and concentrates	2 343.9	1 805.0	1 856.4	1 702.6	1 528.3	1 409.9		
2033B	Fresh fruit juices and nectars, single strength	951.4	909.4	888.8	804.3	683.9	652.2	1 223.4	709.2
20330	Canned fruits and vegetables, n.s.k.	402.3	365.5	354.5	403.3	350.4	368.7	309.4	180.5
2034-20340	Dehydrated fruits, vegetables, and soups^{2 3}	2 079.2	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
20342	Soup mixes, dried	461.2	461.6	422.1	402.7	332.1	332.8	224.7	126.7
20343	Dried and dehydrated fruits and vegetables ²	1 544.3	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
20340	Dehydrated fruits, vegetables, and soups, n.s.k.	73.6	77.3	76.7	78.9	94.2	91.9	76.9	32.7
2035-20350	Pickles, sauces, and salad dressings	4 479.3	4 181.4	3 929.7	3 692.3	3 519.6	3 252.7	2 242.8	1 165.1
20352	Pickles and other pickled products	1 000.2	929.2	853.8	796.3	862.1	694.5	553.2	362.5
20353	Prepared sauces (except tomato)	903.9	645.8	539.2	584.3	521.7	540.0	261.6	151.3
20354	Mayonnaise, salad dressings, and sandwich spreads	2 271.5	2 262.9	2 262.7	2 064.2	1 911.6	1 815.4	1 292.3	576.0
20350	Pickles, sauces, and salad dressings, n.s.k.	303.7	343.5	273.9	247.4	224.3	202.7	135.7	75.3
2037-20370	Frozen fruits and vegetables	6 253.7	5 700.3	5 718.5	5 727.3	5 328.1	5 062.0	3 047.2	1 648.7
20371	Frozen fruits, juices, ades, drinks, and cocktails	2 481.6	2 230.2	2 270.1	2 298.4	2 164.0	1 860.4	1 153.5	733.6
20372	Frozen vegetables	3 645.3	3 345.8	3 297.3	3 281.1	2 997.8	3 089.7	1 797.9	915.1
20370	Frozen fruits and vegetables, n.s.k.	126.8	124.3	151.0	147.7	166.3	111.9	95.8	-
2038-20380	Frozen specialties, n.e.c.⁴	5 252.1	(NA)	(NA)	(NA)	(NA)	3 124.9	(NA)	(NA)
20382	Frozen dinners; beef, pork, and poultry pies; and nationality foods	4 103.5	3 627.4	3 286.2	3 243.6	2 843.9	2 356.6	1 297.7	702.0
20384	Other frozen specialties, n.e.c.	972.4	(NA)	(NA)	(NA)	(NA)	624.3	(NA)	(NA)
20380	Frozen specialties, n.e.c., n.s.k.	176.2	(NA)	(NA)	(NA)	(NA)	143.8	(NA)	(NA)
2041-20410	Flour and other grain mill products	4 690.1	4 838.5	5 109.0	5 180.4	5 084.6	4 871.6	3 678.6	2 374.1
20411	Wheat flour, except flour mixes	3 218.7	3 204.0	3 307.2	3 185.9	3 186.3	3 102.3	2 208.9	1 626.7
20412	Wheat mill products other than flour	336.9	433.9	536.8	669.7	568.2	478.5	455.4	222.6
20413	Corn mill products	561.2	466.1	534.6	603.8	587.7	553.8	413.3	242.0
20415	Flour mixes, and refrigerated and frozen doughs and batters (see also code 20450)	340.5	430.4	370.3	373.7	403.4	382.4	287.2	143.5
20416	Other grain mill products	82.2	139.8	177.4	170.0	169.2	165.6	98.3	45.5
20410	Flour and other grain mill products, n.s.k.	150.5	164.3	153.9	177.3	169.8	188.9	215.5	93.8

See footnotes at end of table.

Table 1. Historical Statistics for Product Classes—Value Shipped by All Producers: 1987 and Earlier Years—Con.

[Million dollars. Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 product code	Product class	1987	1986 ¹	1985 ¹	1984 ¹	1983 ¹	1982	1977	1972
2043- 20430	Cereal breakfast foods	5 081.1	4 665.1	4 378.9	3 870.0	3 393.2	3 111.5	1 832.9	934.6
	Cereal breakfast foods	5 081.1	4 665.1	4 378.9	3 870.0	3 393.2	3 111.5	1 832.9	934.6
2044- 20440	Rice milling	1 257.5	(NA)	(NA)	(NA)	(NA)	1 797.0	(NA)	(NA)
	Milled rice and byproducts	1 257.5	(NA)	(NA)	(NA)	(NA)	1 797.0	(NA)	(NA)
2045- 20450	Prepared flour mixes and doughs	2 821.6	(NA)	(NA)	(NA)	(NA)	1 691.8	(NA)	(NA)
	Flour mixes and refrigerated and frozen doughs and batters (see also code 20415)	2 821.6	(NA)	(NA)	(NA)	(NA)	1 691.8	(NA)	(NA)
2046- 20461 20462 20463 20464 20460	Wet corn milling	4 446.2	4 130.3	4 258.5	3 911.0	3 445.0	3 105.7	1 946.1	786.6
	Corn sweeteners	2 182.5	2 202.9	2 132.4	1 879.2	1 661.1	1 610.4		
	Manufactured starch	774.3	817.6	854.4	936.4	778.8	655.1		
	Corn oil	613.1	304.1	498.9	269.9	278.9	234.9		
	Wet process corn byproducts	845.8	785.3	734.1	791.3	678.6	577.7		
	Wet corn milling products, n.s.k.	30.5	20.3	38.7	34.2	47.5	27.6		
2047- 20473 20474 20470	Dog and cat food	4 710.2	(NA)	(NA)	(NA)	(NA)	4 080.8	(NA)	(NA)
	Dog food	3 074.6	2 990.8	2 840.7	2 816.5	2 741.0	2 655.4		
	Cat food	1 446.3	1 569.3	1 569.6	1 347.5	1 317.1	1 272.9		
	Dog and cat food, n.s.k.	189.2	(NA)	(NA)	(NA)	(NA)	152.5		
2048- 20481 20482 20483 20484 20485	Prepared feeds, n.e.c.	10 712.9	(NA)	(NA)	(NA)	(NA)	10 847.2	(NA)	(NA)
	Chicken and turkey feed, supplements, concentrates, and premixes	3 378.5	3 201.2	3 242.2	3 842.5	3 857.2	3 642.1	2 758.6	1 440.5
	Dairy cattle feed, complete	1 221.5	1 119.6	1 283.1	1 482.3	1 433.5	1 473.9	1 145.6	561.4
	Dairy cattle feed supplements, concentrates, and premixes	543.0	552.5	604.7	609.8	583.7	544.3	308.5	194.9
	Swine feed, complete	416.3	408.9	469.2	628.7	619.4	585.9	575.8	300.7
	Swine feed supplements, concentrates, and premixes	1 265.6	943.0	975.6	1 159.2	1 205.2	1 113.7	892.3	453.5
20486 20487 20488 20489 2048A 20480	Beef cattle feed, complete	431.2	397.7	445.2	571.2	542.6	511.4	367.1	238.5
	Beef cattle feed supplements, concentrates, and premixes	548.1	517.2	563.8	668.1	674.0	607.7	603.8	307.5
	Other poultry and livestock feed	425.6	379.3	409.1	445.2	429.9	400.6	337.9	237.3
	Other prepared animal feeds	468.1	329.4	344.3	405.9	406.1	361.2	338.0	167.7
	Specialty feeds	537.8	390.0	409.7	348.8	317.6	358.9	268.1	147.4
	Prepared feeds, n.e.c., n.s.k.	1 477.1	(NA)	(NA)	(NA)	(NA)	1 247.4	(NA)	(NA)
2051- 20511 20512 20513 20514 20515	Bread, cake, and related products	13 513.0	12 666.8	12 112.7	11 724.0	11 499.4	11 028.1	7 965.9	5 180.8
	Bread: white, wheat, and rye	5 794.5	5 294.5	5 124.2	4 990.9	4 898.8	4 698.1	3 500.7	2 454.8
	Rolls (bread-type), bread stuffing, and bread crumbs	3 211.9	2 951.1	2 684.7	2 503.3	2 518.1	2 437.7	1 679.6	917.5
	Sweet yeast goods, except frozen	994.7	828.7	856.7	851.5	845.4	760.7	640.4	430.3
	Soft cakes, except frozen	1 770.3	1 519.0	1 418.7	1 278.1	1 232.3	1 231.2	949.9	552.0
	Pies (fruit and custard), except frozen	435.7	344.1	378.3	372.7	387.0	394.5	297.1	224.2
20516 20517 20510	Pastries	30.4	45.9	36.2	33.7	36.9	39.2	31.2	49.5
	Doughnuts (cake type)	399.7	521.1	481.3	474.0	454.2	465.2	241.1	179.3
	Bread, cake, and related products, n.s.k.	875.6	1 162.3	1 132.7	1 219.9	1 126.8	1 001.5	625.9	373.2
2052- 20521 20522 20520	Cookies and crackers	5 853.2	5 893.9	6 236.5	5 443.3	4 759.4	4 435.8	2 812.4	1 713.3
	Crackers, pretzels, biscuits, and related products	2 386.1	2 426.2	2 742.3	2 389.3	2 031.2	1 827.8	1 168.9	715.1
	Cookies, wafers, and ice cream cones and cups	3 378.8	3 265.3	3 287.8	2 881.9	2 592.2	2 480.8	1 578.4	976.4
	Cookies and crackers, n.s.k.	88.2	202.4	206.5	172.1	136.0	127.2	65.1	21.8
2053- 20530	Frozen bakery products, except bread	1 372.7	1 819.1	1 670.0	1 583.9	1 331.2	1 292.5	2 911.9	387.5
	Frozen pies and other frozen baked goods	1 372.7	1 819.1	1 670.0	1 583.9	1 331.2	1 292.5	2 911.9	387.5
2061- 20610	Raw cane sugar	1 223.0	1 226.5	1 151.0	1 202.6	1 283.8	1 091.2	707.6	419.5
	Sugar cane mill products and byproducts	1 223.0	1 226.5	1 151.0	1 202.6	1 283.8	1 091.2	707.6	419.5
2062- 20620	Cane sugar refining	2 438.6	2 591.6	2 574.2	3 003.8	3 049.2	2 992.3	2 168.0	1 746.4
	Refined cane sugar and byproducts	2 438.6	2 591.6	2 574.2	3 003.8	3 049.2	2 992.3	2 168.0	1 746.4
2063- 20630	Beet sugar	1 831.7	1 749.8	1 680.9	1 721.5	1 472.7	1 506.3	1 160.4	866.4
	Refined beet sugar and byproducts	1 831.7	1 749.8	1 680.9	1 721.5	1 472.7	1 506.3	1 160.4	866.4
2064- 20642	Candy and other confectionery products⁵	6 910.0	6 415.5	6 186.4	5 742.8	5 127.7	4 730.8	(NA)	(NA)
	Chocolate and chocolate-type confectionery products made from purchased chocolate	4 082.0	3 577.3	3 453.4	3 164.4	2 878.8	2 719.6	1 709.3	
20643 20649 20640	Nonchocolate-type confectionery products	2 296.7	2 401.6	2 294.2	2 060.4	1 870.8	1 593.7	1 241.7	1 704.3
	Other confectionery-type products	110.4	86.1	91.9	83.1	54.9	76.6	(NA)	(NA)
	Candy and other confectionery products, n.s.k.	420.9	350.5	346.9	434.9	323.2	340.9	215.2	103.7
2066- 20661 20662	Chocolate and cocoa products⁶	3 122.4	2 996.0	3 011.2	2 812.5	2 493.1	2 419.6	(NA)	(NA)
	Chocolate coatings	583.6	605.7	536.2	508.2	362.8	352.7	340.9	167.0
	Chocolate and chocolate-type confectionery products made from cocoa beans ground in same establishment	1 260.5	1 380.7	1 350.6	1 300.9	1 315.0	1 040.1	565.4	288.7
20669 20660	Other chocolate and cocoa products⁶	1 169.7	954.9	1 077.6	899.2	770.4	980.8	(NA)	(NA)
	Chocolate and cocoa products, n.s.k.	108.6	54.7	46.8	104.2	44.9	46.0	16.4	5.8
2067- 20670	Chewing gum	868.7	1 040.6	925.8	899.2	864.4	817.2	649.3	384.8
	Chewing gum and chewing gum base	868.7	1 040.6	925.8	899.2	864.4	817.2	649.3	384.8
2068- 20680	Nuts and seeds⁷	2 064.4	1 563.5	1 401.7	1 420.6	1 499.3	1 494.3	(NA)	(NA)
	Nuts and seeds (salted, roasted, cooked, or blanched)	2 064.4	1 563.5	1 401.7	1 420.6	1 499.3	1 494.3	(NA)	(NA)
2074- 20741 20742 20743 20744 20740	Cottonseed oil mills	434.6	532.8	736.8	781.1	667.6	812.2	763.1	410.7
	Cottonseed oil, crude	89.3	87.2	153.2	135.2	119.9	150.2	146.6	125.9
	Cottonseed oil, once-refined	80.6	147.2	190.0	186.7	152.7	219.7	236.5	73.4
	Cotton linters	46.9	54.1	96.7	110.2	65.0	70.0	43.4	29.2
	Cottonseed cake and meal and other byproducts	204.1	239.0	289.7	328.1	324.6	360.1	323.9	175.0
	Cottonseed oil mill products, n.s.k.	13.7	5.2	7.2	21.0	5.3	12.1	12.6	7.2
2075- 20751 20752 20750	Soybean oil mills	7 728.9	6 791.0	7 337.0	8 780.0	7 748.3	7 257.4	6 116.5	2 652.1
	Soybean oil	2 323.4	2 336.0	3 538.3	3 831.7	2 439.0	2 375.4	2 070.1	802.2
	Soybean cake, meal, and other byproducts	5 359.6	4 365.4	3 720.4	4 891.3	5 269.1	4 836.2	4 016.7	1 844.1
	Soybean oil mill products, n.s.k.	46.0	89.5	78.2	57.0	40.1	45.7	29.7	5.8
2076- 20761 20762 20763 20760	Vegetable oil mills, n.e.c.	490.0	484.2	489.3	544.9	601.1	544.3	401.0	263.4
	Linseed oil	104.9	95.2	74.0	112.6	86.8	84.1	72.5	44.4
	Vegetable oils, n.e.c.	218.0	304.2	343.3	324.8	413.4	372.1	210.8	157.4
	Other vegetable oil mill products, n.e.c.	159.2	75.7	64.6	100.1	100.8	84.8	86.9	59.2
	Vegetable oil mill products, n.e.c., n.s.k.	7.8	9.1	7.5	7.3	-	3.3	30.8	2.4
2077- 20771 20772 20773 20770	Animal and marine fats and oils	2 168.0	1 981.6	2 331.1	2 937.0	2 410.5	2 337.1	2 102.2	977.1
	Grease and inedible tallow	760.4	831.0	1 110.4	1 378.6	912.4	938.0	989.4	419.4
	Feed and fertilizer byproducts	1 052.1	854.0	923.9	1 214.5	1 172.6	1 093.5	753.9	389.2
	Animal and marine oil mill products	195.4	224.2	216.0	249.8	241.5	205.4	250.4	121.8
	Animal and marine fats and oils, n.s.k.	160.0	72.4	80.8	94.2	84.0	100.2	108.4	46.7

See footnotes at end of table.

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1987 product code	Product class	1987	1986 ¹	1985 ¹	1984 ¹	1983 ¹	1982	1977	1972
2079-	Edible fats and oils, n.e.c.	4 694.1	5 215.3	6 135.6	6 148.6	5 358.1	5 340.5	4 272.2	2 274.5
20791	Shortening and cooking oils	3 427.2	3 802.9	4 631.6	4 657.4	4 165.8	4 028.6	3 166.3	1 685.8
20792	Margarine	1 167.5	1 362.4	1 419.2	1 418.3	1 110.1	1 225.1	1 070.4	586.3
20790	Edible fats and oils, n.e.c., n.s.k.	99.4	50.0	84.8	72.9	82.3	86.8	35.5	2.4
2082-	Malt beverages	13 521.1	12 593.4	12 145.8	11 781.2	11 616.8	11 105.6	6 612.9	4 038.7
20821	Canned beer and ale case goods	8 212.4	7 623.8	7 345.8	6 949.5	6 419.9	5 984.9	3 548.9	2 206.3
20822	Bottled beer and ale case goods	4 074.2	3 786.8	3 674.7	3 678.7	4 006.4	3 964.6	2 263.1	1 416.6
20823	Beer and ale in barrels and kegs	722.1	700.4	696.8	703.7	735.5	686.7	398.1	264.1
20824	All other malt beverages and brewing products	416.5	436.8	399.3	412.5	427.4	441.8	379.7	116.6
20820	Malt beverages and brewing byproducts, n.s.k.	95.9	45.7	29.3	36.8	27.6	27.6	23.1	35.1
2083-	Malt	534.3	531.0	560.9	577.1	568.7	654.7	488.9	212.8
20830	Malt and malt byproducts	534.3	531.0	560.9	577.1	568.7	654.7	488.9	212.8
2084-	Wines, brandy, and brandy spirits	3 162.3	3 094.6	2 696.2	2 644.8	2 761.7	2 719.5	1 357.7	851.0
20840	Wines, brandy, and brandy spirits	3 162.3	3 094.6	2 696.2	2 644.8	2 761.7	2 719.5	1 357.7	851.0
2085-	Distilled and blended liquors	3 187.8	3 084.5	3 125.5	3 089.6	3 438.0	2 809.3	1 955.0	1 557.2
20851	Distilled liquor, except brandy	454.0	551.5	556.0	337.3	319.8	345.4	205.7	153.7
20853	Bottled liquor, except brandy	2 664.8	2 470.9	2 475.3	2 624.6	3 048.7	2 411.3	1 703.3	1 396.3
20850	Distilled and blended liquors, n.s.k.	69.0	62.1	94.2	127.6	69.5	52.6	46.0	7.2
2086-	Bottled and canned soft drinks	19 611.7	19 174.0	18 100.3	16 473.1	15 527.5	14 891.9	8 503.6	4 807.2
20863	Bottled carbonated soft drinks	6 396.5	(NA)	(NA)	(NA)	(NA)	5 880.0	(NA)	(NA)
20864	Canned carbonated soft drinks	7 030.1	(NA)	(NA)	(NA)	(NA)	4 515.2	(NA)	(NA)
20865	Soft drink flavoring syrup sold in bulk	879.4	(NA)	(NA)	(NA)	(NA)	517.4	(NA)	(NA)
20866	Noncarbonated soft drinks	2 426.6	(NA)	(NA)	(NA)	(NA)	1 085.0	(NA)	(NA)
20860	Bottled and canned soft drinks, n.s.k.	2 879.1	1 687.1	2 009.2	2 429.8	2 855.5	2 894.3	(NA)	(NA)
2087-	Flavoring extracts and syrups, n.e.c.	4 925.6	4 945.0	4 808.5	4 683.3	4 484.4	4 455.8	2 620.7	1 452.9
20871	Flavoring extracts, emulsions, and other liquid flavors	479.3	608.7	520.9	441.4	379.1	346.5	226.4	119.0
20872	Liquid beverage bases not for use by soft drink bottlers	73.4	183.8	133.1	141.6	140.9	177.9	213.0	97.9
20873	Liquid beverage bases for use by soft drink bottlers	2 186.3	2 014.8	1 862.0	1 792.0	1 731.4	1 850.5	919.6	637.1
20874	Other flavoring agents (except chocolate syrups)	1 813.7	1 885.3	1 976.5	1 991.2	1 887.0	1 758.3	1 062.7	527.0
20870	Flavoring extracts and flavoring syrups, n.e.c., n.s.k.	373.0	252.3	315.9	317.1	345.9	322.5	199.0	71.9
2091-	Canned and cured fish and other seafoods	862.2	840.1	869.1	1 152.5	1 256.7	1 267.1	1 025.5	587.8
20910	Canned and cured fish and other seafoods, including soup (except frozen seafoods and soup)	862.2	840.1	869.1	1 152.5	1 256.7	1 267.1	1 025.5	587.8
2092-	Fresh or frozen prepared fish and other seafood	5 103.7	3 994.2	3 614.8	3 463.4	3 665.0	3 714.0	2 459.2	1 016.8
20922	Prepared fresh fish and other seafood	790.0	623.0	539.2	462.4	569.3	578.3	460.5	135.2
20923	Frozen fish, excluding surimi	2 048.3	1 341.3	1 241.6	1 029.0	1 040.2	1 033.9	744.4	314.7
20925	Frozen shellfish, excluding surimi	1 339.6	(NA)	(NA)	(NA)	(NA)	1 304.2	(NA)	(NA)
20926	Other frozen seafoods	196.5	(NA)	(NA)	(NA)	(NA)	93.3	(NA)	(NA)
20920	Prepared fresh or frozen fish and other seafood, n.s.k.	729.3	669.2	540.0	647.2	650.0	704.3	366.8	151.1
2095-	Roasted coffee	5 466.6	6 554.0	5 866.7	5 632.7	5 117.4	5 122.7	5 217.8	2 163.4
20951	Roasted coffee, whole bean or ground	4 312.9	4 987.9	4 385.8	4 152.0	3 777.6	3 773.3	3 674.5	1 517.7
20952	Concentrated coffee	1 052.1	1 377.6	1 307.6	1 300.3	1 246.0	1 250.2	1 387.8	598.8
20950	Roasted coffee, n.s.k.	101.6	188.5	173.3	180.4	93.8	99.1	155.5	46.9
2096-	Potato chips and similar products	5 005.8	4 617.7	4 480.8	3 895.0	3 536.7	3 321.7	1 797.4	1 042.1
20961	Potato chips and sticks, plain and flavored	2 401.0	(NA)	(NA)	(NA)	(NA)	1 545.4	962.2	624.0
20962	Corn chips and related products	1 864.1	(NA)	(NA)	(NA)	(NA)	1 087.1	655.2	283.6
20963	Other chips, sticks, etc.	559.1	(NA)	(NA)	(NA)	(NA)	598.0	147.0	111.5
20960	Potato chips and similar products, n.s.k.	181.5	(NA)	(NA)	(NA)	(NA)	91.3	33.0	23.0
2097-	Manufactured ice	282.7	239.1	242.6	232.6	253.2	227.4	140.6	105.7
20970	Manufactured ice	282.7	239.1	242.6	232.6	253.2	227.4	140.6	105.7
2098-	Macaroni and spaghetti	974.4	1 507.1	1 366.5	1 277.2	1 294.4	1 192.8	751.7	355.2
20980	Macaroni, spaghetti, and egg noodle products, except canned (not packaged with other ingredients)	974.4	1 507.1	1 366.5	1 277.2	1 294.4	1 192.8	751.7	355.2
2099-	Food preparations, n.e.c.	10 670.7	(NA)	(NA)	(NA)	(NA)	8 159.7	(NA)	(NA)
20991	Desserts (ready-to-mix)	664.0	576.3	567.5	585.8	454.3	401.6	412.9	267.2
20993	Sweetening syrups and molasses	399.3	484.7	475.2	415.6	393.5	360.9	296.8	167.3
20994	Baking powder and yeast	339.3	351.9	321.5	330.1	286.5	273.2	170.2	82.6
20996	Vinegar and cider	164.7	209.4	207.4	207.9	201.9	187.8	122.8	80.6
20997	Dry mix preparations	2 257.8	(NA)	(NA)	(NA)	(NA)	1 213.3	(NA)	(NA)
20999	Perishable prepared foods sold in bulk or packages (not frozen)	1 347.3	(NA)	(NA)	(NA)	(NA)	769.1	515.5	353.5
2099D	Tea in consumer packages	936.3	(NA)	(NA)	(NA)	(NA)	747.6	(NA)	(NA)
2099E	Spices	888.8	(NA)	(NA)	(NA)	(NA)	585.9	450.3	345.4
2099F	Peanut butter	847.7	(NA)	(NA)	(NA)	(NA)	796.7	429.7	250.4
2099G	Other food preparations, n.e.c.	1 300.4	(NA)	(NA)	(NA)	(NA)	1 220.6	(NA)	(NA)
20990	Food preparations, n.e.c., n.s.k.	1 525.2	(NA)	(NA)	(NA)	(NA)	1 603.0	(NA)	(NA)
2111-	Cigarettes, including nontobacco cigarettes	16 746.2	15 028.0	14 085.8	13 123.2	11 941.4	11 433.5	6 098.2	3 589.4
21110	Cigarettes	16 746.2	15 028.0	14 085.8	13 123.2	11 941.4	11 433.5	6 098.2	3 589.4
2121-	Cigars	204.1	259.3	263.3	269.5	307.3	290.0	256.2	357.5
21210	Cigars	204.1	259.3	263.3	269.5	307.3	290.0	256.2	357.5
2131-	Chewing and smoking tobacco	1 031.8	1 010.4	965.7	874.5	748.7	731.1	401.4	257.5
21310	Chewing and smoking tobacco	1 031.8	1 010.4	965.7	874.5	748.7	731.1	401.4	257.5
2141-	Tobacco stemming and redrying	2 170.5	2 172.4	2 529.0	2 538.8	2 545.6	2 946.0	1 769.1	1 335.8
21411	Unstemmed leaf tobacco redried before packing	103.2	58.6	99.7	128.0	137.4	98.4	170.7	122.2
21412	Tobacco, stemmed	1 889.1	1 953.0	2 247.0	2 258.5	2 295.3	2 733.0	1 531.7	1 194.3
21413	Reconstituted tobacco	153.2	129.5	120.5	116.8	103.5	111.4	50.8	19.3
21410	Stemmed and redried tobacco, n.s.k.	25.0	31.4	61.7	35.6	9.4	3.2	15.9	-

See footnotes at end of table.

Table 1. Historical Statistics for Product Classes—Value Shipped by All Producers: 1987 and Earlier Years—Con.

[Million dollars. Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 product code	Product class	1987	1986 ¹	1985 ¹	1984 ¹	1983 ¹	1982	1977	1972
2211—	Broadwoven fabrics mills, cotton	5 405.6	4 147.8	3 897.9	4 067.9	4 159.7	3 635.0	4 132.0	2 525.8
2211B	Plain weave fabrics, except pile (gray goods)	2 014.9							
2211C	Twill weave fabrics, except pile (gray goods)	675.5							
2211D	All other weaves, except pile (includes taped warp duck) (gray goods)	223.6	2 881.6	2 415.9	2 382.3	2 414.7	2 066.2	2 615.1	1 630.4
2211E	Pile fabrics (gray goods)	369.3							
2211F	Finished cotton broadwoven fabrics (finished in weaving mills) (see also code 22617)	809.9	336.5	631.4	750.1	822.9	724.7	928.1	445.4
2211G	Cotton towels and washcloths (made in weaving mills)	783.7	711.3	658.2	705.9	715.5	608.1	416.4	319.0
2211H	Fabricated cotton textile products (made in weaving mills)	396.5	154.9	111.1	146.2	121.9	99.8	108.2	73.8
22110	Broadwoven fabrics mills, cotton, n.s.k.	132.3	63.5	81.3	83.4	84.7	136.2	64.2	57.2
2221—	Broadwoven fabrics mills, manmade fiber and silk	7 772.0	8 074.7	8 105.4	9 129.2	8 880.0	7 820.3	5 981.5	3 520.0
2221B	85 percent or more filament rayon and/or acetate fabrics (gray goods)	559.3							
2221C	85 percent or more filament fabrics, except rayon or acetate (gray goods)	1 452.6							
2221D	85 percent or more spun yarn fabrics, plain weave (except wool blends) (gray goods)	2 035.9							
2221E	85 percent or more spun yarn fabrics (except wool blends), twill weave (gray goods)	240.2	6 356.2	6 086.5	6 803.0	6 696.4	5 820.2	4 300.8	2 612.2
2221F	Other 85 percent or more spun yarn fabrics (except wool blends and pile) (gray goods)	210.7							
2221G	Combinations of spun yarn and filament fabrics (except wool blends), except pile (gray goods)	952.6							
2221H	Other manmade fiber fabrics and silk fabrics	666.9							
2221J	Finished manmade fiber and silk broadwoven fabrics (finished in weaving mills)	1 036.4	1 107.5	1 279.3	1 467.2	1 408.9	1 109.8	1 127.0	581.0
2221K	Manmade fibers and silk sheets and pillowcases (made in weaving mills)	(D)	498.4	436.5	487.1	476.5	462.9	426.8	280.1
2221M	Fabricated manmade fiber and silk textile products (made in weaving mills)	(D)	97.6	109.0	144.7	103.5	86.2		
22210	Broadwoven fabrics mills, manmade fiber and silk products, n.s.k.	186.3	45.0	194.1	227.2	194.7	341.2	126.9	46.7
2231—	Broadwoven fabrics mills, wool	1 146.7	863.5	930.4	960.7	922.3	834.0	581.3	440.7
22311	Finished wool yarns, tops, or raw stock, not combed or spun at same establishment	83.8	(D)	(D)	(D)	(D)	(D)	39.5	61.5
22312	Wool broadwoven fabrics (gray goods)	393.4	133.3	153.3	170.2	155.7	137.8	97.3	31.4
22313	Finished broadwoven wool apparel fabrics	535.4	551.5	592.3	594.6	556.1	501.4	299.3	213.5
22314	Finished broadwoven wool nonapparel fabrics and felts	64.2	81.5	76.9	75.4	78.1	68.7	83.2	80.1
22315	Receipts for commission finishing or sponging of wool fabrics	20.9	(D)	(D)	(D)	(D)	(D)	26.8	26.7
22319	Wool or chiefly wool woven blankets (made in weaving mills)	13.8	20.9	20.9	20.4	26.7	24.5	9.2	13.0
22310	Wool broadwoven fabrics and blankets, n.s.k.	35.1	26.8	38.3	48.2	37.4	44.3	26.0	14.5
2241—	Narrow fabrics mills	1 170.6	1 044.3	989.9	961.4	904.6	826.1	645.0	521.5
22411	Woven narrow fabrics	770.6	749.2	710.5	688.5	663.0	568.2	413.5	355.2
22414	Braided narrow fabrics	165.3	154.8	158.4	160.8	135.3	135.7	133.4	103.8
22415	Covered rubber thread	175.1	99.6	88.9	75.8	59.4	86.8	56.1	40.0
22410	Narrow fabrics, n.s.k.	59.7	40.8	32.0	36.2	46.9	35.4	42.0	22.5
2251—	Women's hosiery, except socks^a	1 514.5	1 677.5	1 598.9	1 626.1	1 568.4	1 425.3	819.1	899.0
22514	Women's finished hosiery, full-length and knee-length ^a	235.5	356.1	348.6	378.2	419.9	240.9		
22516	Women's finished pantyhose	1 132.8	1 138.1	1 074.4	1 073.5	1 009.1	943.2	723.4	777.2
22518	Women's hosiery and pantyhose shipped in the greige ^a	106.8	102.7	103.7	104.9	94.6	85.6	58.4	101.1
22510	Women's hosiery, except socks, n.s.k.	39.4	80.6	72.2	69.5	44.8	43.1	37.3	21.7
2252—	Hosiery, n.e.c.^a	1 902.4	1 568.9	1 518.2	1 575.7	1 516.6	1 324.5	893.6	588.0
22522	Men's finished hosiery (sizes 10 and larger)	844.7	767.6	723.3	760.6	731.2	655.0	464.6	285.9
22525	All other finished hosiery ^a	694.3	736.4	729.1	742.3	711.2	564.5	367.8	267.3
22526	Hosiery shipped in the greige (except women's full-length and pantyhose) ^a	242.7					155.6		
22520	Hosiery, n.e.c., n.s.k.	120.7	64.9	65.8	72.6	74.2	61.9	61.2	34.8
2253—	Knit outerwear mills	3 293.5	3 241.6	3 220.1	3 348.1	3 383.4	3 154.2	2 136.6	1 571.1
22534	Men's and boys' sweaters	388.7	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
22535	Women's, misses', and juniors' sweaters	447.4	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
22536	Girls', children's, and infants' sweaters	59.1	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
2253A	Men's and boys' knit shirts	725.9	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
2253B	Women's, misses', and juniors' knit shirts and blouses	184.8	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
2253C	Girls', children's, and infants' knit shirts and blouses	51.0	(NA)	(NA)	(NA)	(NA)	48.5	(NA)	(NA)
2253D	All other knit outerwear products	825.3	(NA)	(NA)	(NA)	(NA)	751.9	(NA)	(NA)
2253E	Contract and commission receipts	318.9	289.9	331.5	319.1	230.9	209.8	154.2	205.8
22530	Knit outerwear mill products, n.s.k.	292.5	219.3	257.1	229.5	281.2	262.0	219.1	103.7
2254—	Knit underwear mills	803.2	1 025.6	985.6	919.8	812.2	767.4	579.5	481.5
22541	Men's and boys' knit underwear and nightwear	610.2	828.0	762.5	685.8	556.6	574.8	431.0	360.3
22542	Women's and children's knit underwear	142.4	148.4	136.1	129.5	161.2	125.3	95.4	73.0
22543	Women's and children's knit nightwear	41.2	36.5	62.0	63.4	68.9	61.9	50.0	45.9
22540	Knit underwear mill products, n.s.k.	9.3	12.7	24.9	41.1	(S)	5.4	3.1	2.3
2257—	Weft knit fabrics mills	3 539.2	2 475.5	2 076.8	2 273.6	2 501.2	2 494.9	3 111.2	2 770.2
22571	Weft knit fabrics greige goods, except hosiery	872.3	505.5	369.9	389.4	484.2	467.6	343.5	163.2
22573	Finished weft knit fabrics (except hosiery)	2 102.5	1 517.8	1 307.3	1 424.2	1 577.7	1 567.7	2 321.7	2 086.7
22579	Contract and commission receipts	341.2	237.5	237.9	277.0	297.7	282.5	286.1	394.0
22570	Weft knit fabrics mill products, n.s.k.	223.2	214.7	161.7	183.0	141.6	177.1	159.9	126.3
2258—	Warp knit fabrics mills and lace goods	2 106.5	1 787.7	1 884.3	1 814.0	1 972.0	1 635.5	1 608.2	968.4
22581	Warp knit fabrics greige goods	391.5	400.6	445.8	526.4	599.9	445.8	363.3	151.9
22584	Finished warp knit fabrics	1 332.5	1 077.0	1 156.5	1 008.3	1 047.4	961.8	1 036.3	675.3
22585	Lace and net goods	121.0	67.5	78.4	83.4	67.6	66.6	39.8	39.8
22589	Contract and commission receipts	197.5	178.2	157.8	128.8	193.2	114.5	138.7	95.5
22580	Warp knit fabrics and lace goods, n.s.k.	63.9	64.4	45.8	67.1	63.9	45.7	30.1	5.9
2259—	Knitting mills, n.e.c.	222.4	159.0	168.4	159.1	165.1	133.5	112.9	87.1
22590	Knit gloves and other knit products	222.4	159.0	168.4	159.1	165.1	133.5	112.9	87.1
2261—	Finishing plants, cotton	1 604.6	973.2	890.7	841.3	918.5	768.2	751.7	705.9
22617	Finished cotton broadwoven fabrics	949.1	576.7	499.1	500.6	571.1	436.2	263.4	263.4
22619	Commission finishing	621.4	352.4	344.0	280.2	311.8	297.9	477.9	422.6
22610	Finished cotton broadwoven fabrics, n.s.k.	34.1	44.1	47.6	60.5	35.6	34.0	9.6	19.9
2262—	Finishing plants, manmade fiber and silk	3 537.3	3 434.2	3 119.2	3 294.9	3 065.0	2 767.5	2 137.7	1 235.1
22628	Finished manmade fiber and silk broadwoven fabrics	2 700.6	2 289.1	2 118.0	2 246.7	2 023.3	1 823.7	1 303.5	594.5
22629	Commission finishing	710.0	1 107.9	983.8	1 025.4	1 035.6	930.5	830.5	632.4
22620	Finished manmade fiber and silk broadwoven fabrics, n.s.k.	126.7	37.3	17.4	22.8	6.1	8.5	3.7	8.2
2269—	Finishing plants, n.e.c.	1 033.2	884.8	909.6	1 040.6	1 014.8	920.6	764.9	522.8
22690	Finished yarn, raw stock, and narrow fabrics	1 033.2	884.8	909.6	1 040.6	1 014.8	920.6	764.9	522.8

See footnotes at end of table.

Table 1. Historical Statistics for Product Classes—Value Shipped by All Producers: 1987 and Earlier Years—Con.

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1987 product code	Product class	1987	1986 ¹	1985 ¹	1984 ¹	1983 ¹	1982	1977	1972
2273-	Carpets and rugs	9 291.3	8 370.9	7 669.7	7 403.7	6 688.5	5 592.4	4 433.1	2 942.4
22731	Woven carpets and rugs	269.7	378.4	294.1	248.5	214.8	217.8	167.9	202.5
22732	Tufted carpets and rugs	8 547.1	7 760.5	7 175.5	6 957.2	6 310.7	5 152.4	4 172.2	2 634.1
22733	Carpets and rugs, n.e.c.	330.2	232.0	200.1	198.0	163.0	148.2	93.0	105.8
22730	Carpets and rugs, n.e.c., n.s.k.	144.3	(⁹)	(⁹)	(⁹)	(⁹)	(⁹)	(⁹)	(⁹)
2281-	Yarn mills	7 711.2	5 957.8	5 369.5	5 745.4	5 602.6	4 767.7	4 390.8	2 609.2
22811	Carded cotton yarns	1 895.0	1 280.6	1 121.5	1 184.0	1 147.5	939.2	905.6	523.7
22812	Combed cotton yarns	795.2	449.8	334.5	388.7	410.2	350.5	520.6	297.9
22813	Rayon and/or acetate spun yarns	282.1	264.8	238.2	235.4	238.9	149.3	199.4	225.3
22814	Spun noncellulosic fiber and silk yarns	4 303.0	3 667.3	3 362.4	3 576.5	3 416.9	3 001.2	2 485.9	1 240.9
22815	Wool yarns	329.8	245.3	250.1	309.1	311.1	242.5	234.4	272.7
22810	Yarn spinning mill products, n.s.k.	106.2	50.0	62.8	51.8	78.0	85.0	44.9	48.7
2282-	Yarn throwing and winding mills	2 243.8	2 315.7	2 447.2	2 421.4	2 339.8	2 002.5	1 558.3	1 748.8
22822	Rewound, plied, etc., yarns (not spun or thrown at same establishment)	118.1	216.1	207.2	199.6	288.4	221.3	128.7	117.4
22823	Thrown filament yarns, except textured	314.2	102.6	105.1	164.4	178.9	151.3	136.1	119.1
22825	Textured, crimped, or bulked filament yarns, including stretch yarn (made from purchased filament yarn)	1 644.9	1 851.0	1 972.0	1 873.1	1 753.8	1 487.5	1 220.7	1 465.6
22829	Commission throwing, plying, etc., of yarns	109.6	149.5	153.8	180.1	155.5	139.5	61.5	54.5
22820	Yarn throwing and winding mill products, n.s.k.	57.0	35.4	33.4	33.8	24.8	29.9	30.8	8.9
2284-	Thread mills	677.0	609.9	599.4	621.9	628.8	614.6	551.1	340.3
22840	Thread	677.0	609.9	599.4	621.9	628.8	614.6	551.1	340.3
2295-	Coated fabrics, not rubberized	1 323.4	1 075.5	1 121.3	1 224.0	1 057.8	1 069.3	987.0	808.6
22951	Pyroxylin coated fabrics (on a textile base)	39.4	55.1	45.9	55.1	43.8	44.1	37.6	26.3
22952	Vinyl coated fabrics	699.0	621.0	677.5	729.7	617.8	628.5	680.4	601.9
22953	Other coated fabrics	482.5	327.9	310.5	331.4	328.3	332.4	220.7	154.1
22950	Coated fabrics, n.s.k.	102.5	71.6	87.5	107.8	67.9	64.3	48.3	26.3
2296-	Tire cord and fabrics	896.6	926.4	1 010.0	1 100.9	992.9	892.2	919.8	620.8
22960	Tire cord and tire fabrics	896.6	926.4	1 010.0	1 100.9	992.9	892.2	919.8	620.8
2297-	Nonwoven fabrics	2 423.5	1 988.8	1 981.9	1 976.0	1 772.1	1 658.8	1 095.1	517.6
22971	Nonwoven fabrics	1 847.3	1 538.6	1 518.0	1 489.9	1 330.5	1 263.0	782.4	276.0
22972	Fabricated nonwoven products	502.0	415.8	412.9	431.3	402.1	360.4	260.8	120.8
22970	Nonwoven fabrics and related products, n.s.k.	74.2	34.4	51.0	54.7	39.5	35.4	51.9	20.7
2298-	Cordage and twine	475.4	362.9	361.6	370.4	388.6	336.0	291.6	174.7
22981	Hard fiber cordage and twine	95.4	51.6	54.8	56.8	67.2	58.3	42.5	42.3
22982	Soft fiber cordage and twine (except cotton)	258.7	247.5	232.1	246.4	265.1	228.1	183.8	86.2
22983	Cotton cordage and twine	47.8	23.5	26.8	27.0	21.7	21.8	47.6	30.7
22980	Cordage and twine, n.s.k.	73.5	40.3	47.9	40.2	34.6	27.8	17.7	15.5
2299-	Textile goods, n.e.c.	1 424.5	1 304.0	1 270.3	1 358.5	1 199.6	1 145.7	891.7	623.7
22991	Pressed, punched, or needled felts, except hats	428.2	422.4	352.5	352.9	279.2	261.9	186.2	130.8
22994	Recovered fibers, processed mill waste, and related products	188.4	331.0	318.0	379.8	243.3	186.7	164.2	124.2
22995	Paddings and upholstery filling, batting, and wadding	433.9	293.1	301.9	291.8	300.4	283.8	260.5	154.3
22996	Jute goods and scouring and combing mill products	217.7	169.2	180.3	204.7	199.5	220.1	134.3	81.0
22990	Textile goods, n.e.c., n.s.k.	156.3	88.3	117.6	129.3	177.2	177.4	146.5	133.4
2311-	Men's and boys' suits and coats	2 877.0	3 033.4	3 105.9	3 130.6	3 036.5	2 932.9	2 719.2	2 230.8
23111	Men's suits, including uniform and leisure (duos and trios) suits	1 222.7	1 170.3	1 219.3	1 211.0	1 188.9	1 078.6	1 273.4	898.5
23112	Men's overcoats, topcoats, and tailored car and suburban coats	104.7	103.1	106.4	97.5	148.6	126.6	179.8	97.0
23113	Men's sport coats, jackets, and vests	974.3	1 048.4	1 040.0	973.1	1 019.4	944.0	623.0	626.5
23114	Boys' suits, coats, tailored jackets, and tailored vests	84.4	99.2	103.1	147.1	127.1	148.2	149.7	100.0
23119	Contract and commission receipts	430.2	535.6	544.0	552.7	434.5	493.6	371.5	445.5
23110	Men's and boys' suits and coats, n.s.k.	60.6	76.7	93.1	149.1	118.0	141.9	121.8	63.3
2321-	Men's and boys' shirts¹⁰	3 842.2	(NA)	(NA)	(NA)	(NA)	2 926.0	(NA)	(NA)
23213	Men's and boys' knit shirts	1 863.0	2 796.4	2 601.2	2 441.7	2 403.8	2 325.0	2 153.6	1 452.2
23216	Men's and boys' woven dress and sport shirts	1 339.3							
23219	Contract and commission receipts	537.2	(NA)	(NA)	(NA)	(NA)	435.9	(NA)	(NA)
23210	Men's and boys' shirts, n.s.k.	102.7	(NA)	(NA)	(NA)	(NA)	167.1	(NA)	(NA)
2322-	Men's and boys' underwear and nightwear^{10 11}	996.5	(NA)	(NA)	(NA)	(NA)	656.0	(NA)	(NA)
23221	Men's and boys' underwear	768.3	450.1	442.1	464.1	462.5	418.2	350.0	(NA)
23222	Men's and boys' nightwear	148.3	174.0	164.9	139.2	127.5	151.3	152.8	105.3
23229	Contract and commission receipts	60.7	(NA)	(NA)	(NA)	(NA)	79.2	(NA)	(NA)
23220	Men's and boys' underwear and nightwear, n.s.k.	19.3	(NA)	(NA)	(NA)	(NA)	7.3	(NA)	(NA)
2323-	Men's and boys' neckwear	421.5	305.6	306.5	323.9	330.9	310.4	211.3	279.3
23230	Men's and boys' neckwear	421.5	305.6	306.5	323.9	330.9	310.4	211.3	279.3
2325-	Men's and boys' trousers and slacks^{10 12}	5 474.4	(NA)	(NA)	(NA)	(NA)	4 860.6	(NA)	(NA)
23251	Men's and boys' separate dress and sport trousers	1 639.5	1 749.7	1 606.6	1 732.2	1 715.3	1 560.4	1 308.3	1 388.1
23252	Men's and boys' jeans, including dungarees and jean-cut casual slacks	2 962.5	2 745.6	2 636.1	2 745.6	2 768.1	2 543.9	1 962.8	737.6
23259	Contract and commission receipts	821.8	(NA)	(NA)	(NA)	(NA)	664.5	(NA)	(NA)
23250	Men's and boys' trousers and slacks, n.s.k.	50.5	26.1	23.9	44.2	115.6	91.8	58.6	52.8
2326-	Men's and boys' work clothing^{10 13}	1 419.9	(NA)	(NA)	(NA)	(NA)	1 240.6	(NA)	(NA)
23261	Men's and boys' work shirts	346.4	398.4	376.6	368.9	227.6	242.5	191.6	141.7
23262	Men's and boys' work clothing and washable service apparel	881.4	880.7	790.9	863.9	804.0	767.0	729.6	534.8
23269	Contract and commission receipts	151.3	(NA)	(NA)	(NA)	(NA)	137.5	(NA)	(NA)
23260	Men's and boys' work clothing, n.s.k.	40.8	62.0	111.3	85.0	119.5	93.6	99.0	22.3
2329-	Men's and boys' clothing, n.e.c.¹⁰	2 256.4	(NA)	(NA)	(NA)	(NA)	1 623.4	1 052.2	746.5
23291	Men's and boys' heavy outerwear coats and jackets, nontailored	518.6	521.8	514.7	426.8	373.1	449.8	397.3	311.8
23293	Men's and boys' outerwear, n.e.c. ¹⁰	1 342.1	940.9	886.4	812.1	743.8	798.9	423.3	300.4
23299	Contract and commission receipts ¹⁰	254.7	(NA)	(NA)	(NA)	(NA)	217.4	126.6	94.7
23290	Men's and boys' clothing, n.e.c., n.s.k.	141.0	43.1	57.3	107.3	169.2	157.3	105.0	39.6
2331-	Women's, misses', and juniors' blouses and shirts	4 178.1	4 059.4	3 832.9	3 969.4	4 324.7	4 258.2	2 555.7	1 278.8
23313	Women's, misses', and juniors' knit shirts and blouses (made from purchased knit fabrics)	1 070.3	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
23314	Women's, misses', and juniors' woven shirts and blouses	2 175.8	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
23319	Contract and commission receipts	684.9	635.4	679.3	700.0	619.9	713.4	487.7	268.5
23310	Women's, misses', and juniors' blouses and shirts, n.s.k.	247.1	254.1	204.3	256.5	377.5	332.7	135.4	107.6
2335-	Women's, misses', and juniors' dresses	5 346.9	5 414.7	5 177.2	4 896.0	4 877.9	4 534.7	3 993.0	3 536.2
23353	Women's, misses', and juniors' dresses	3 719.1	2 913.2	2 963.8	3 143.8	3 056.4	2 988.6	2 468.9	2 205.9
23359	Contract and commission receipts	1 150.8	668.1	721.7	735.5	1 004.1	1 029.1	764.8	729.7
23350	Women's, misses', and juniors' dresses, n.s.k.	477.0	1 833.3	1 491.7	1 016.7	817.3	517.0	759.3	600.6

See footnotes at end of table.

Table 1. Historical Statistics for Product Classes—Value Shipped by All Producers: 1987 and Earlier Years—Con.

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1987 product code	Product class	1987	1986 ¹	1985 ¹	1984 ¹	1983 ¹	1982	1977	1972
2337- 23371 23372 23374 23379 23370	Women's, misses', and juniors' suits, skirts, and coats Women's, misses', and juniors' coats (except fur and leather) Women's, misses', and juniors' suits Women's, misses', and juniors' skirts, jackets, and vests Contract and commission receipts Women's, misses', and juniors' suits, skirts, and coats, n.s.k.	3 884.9 666.4 298.0 2 203.8 509.2 207.4	3 487.6 603.4 252.0 2 216.4 320.2 95.5	3 403.6 565.3 340.5 1 982.5 314.9 200.5	3 759.7 635.1 388.7 2 158.3 370.2 207.4	3 942.6 520.7 437.5 2 202.0 531.7 250.6	4 288.9 621.9 407.1 2 351.2 513.7 395.1	2 734.8 612.1 671.9 741.0 423.9 285.9	1 725.4 570.1 313.2 443.5 282.7 115.9
2339- 23392 23394 23395	Women's, misses', and juniors' outerwear, n.e.c. Women's, misses', and juniors' washable service apparel Women's, misses', and juniors' bathing suits Women's, misses', and juniors' slacks, including jeans and jean-cut casual slacks	5 952.6 282.3 471.4 2 649.0	4 779.9 258.1 462.7 2 554.0	4 841.2 244.0 415.4 2 786.0	5 263.0 263.2 434.8 2 930.5	5 419.0 265.9 420.5 2 763.7	5 159.5 250.4 387.1 2 591.2	3 175.3 194.7 165.4 1 465.4	1 648.1 105.2 (NA) 1 139.4
23397 23399 23390	Women's, misses', and juniors' outerwear, n.e.c. Contract and commission receipts Women's, misses', and juniors' outerwear, n.e.c., n.s.k.	1 085.5 907.6 556.9	588.2 618.4 298.4	542.5 603.3 250.2	648.9 612.7 373.0	773.9 638.4 556.7	643.7 780.9 506.3	458.1 501.1 390.6	(NA) 304.8 98.7
2341- 23412 23413 23419 23410	Women's and children's underwear and nightwear Women's and children's underwear Women's and children's nightwear Contract and commission receipts Women's and children's underwear and nightwear, n.s.k.	2 591.4 1 019.2 1 180.0 322.6 69.6	2 429.4 932.5 1 116.2 315.4 65.3	2 502.6 990.1 1 110.8 348.6 53.1	2 525.3 961.5 1 133.1 376.2 54.5	2 507.7 833.9 1 258.3 340.5 75.1	2 356.3 831.0 1 127.4 314.5 83.3	1 750.0 585.8 852.2 247.1 64.9	1 288.7 416.7 597.5 186.4 88.1
2342- 23421 23422 23429 23420	Brassieres, girdles, and allied garments Brassieres Corsets, girdles, combinations, and accessories Contract and commission receipts Brassieres, girdles, and allied garments, n.s.k.	983.1 713.5 143.1 74.2 52.2	885.4 595.0 167.4 76.3 46.7	785.8 552.8 133.8 58.7 40.5	715.3 497.5 141.3 34.0 42.5	740.7 488.6 193.7 21.3 37.1	666.7 450.8 159.1 19.8 37.1	546.6 346.1 153.3 23.6 23.6	679.5 385.1 236.7 38.5 19.2
2353- 23531 23532 23533 23530	Hats, caps, and millinery¹⁴ Hats and hat bodies, except cloth and millinery Cloth hats and caps, except millinery Millinery Hats, caps, and millinery, n.s.k.	604.1 78.7 307.9 105.5 112.0	582.2 110.1 324.0 96.2 51.9	574.5 104.8 330.4 104.6 34.7	588.4 92.4 327.6 104.5 63.9	523.2 75.9 302.4 89.9 55.0	504.5 83.2 272.0 87.7 61.6	344.6 66.4 176.6 74.2 27.4	206.2 44.4 83.9 58.7 19.2
2361- 23613 23614 23615 23619 23610	Girls', children's, and infants' dresses, blouses, and shirts Girls', children's, and infants' knit shirts and blouses Girls', children's, and infants' woven shirts and blouses Girls', children's, and infants' dresses Contract and commission receipts Girls', children's, and infants' dresses, blouses, and shirts, n.s.k.	1 607.5 557.9 187.9 572.3 225.8 63.6	1 246.9 (NA) (NA) (NA) 117.2 47.6	1 266.8 (NA) (NA) (NA) 131.3 48.1	1 339.0 (NA) (NA) (NA) 166.3 46.7	1 322.6 (NA) (NA) (NA) 210.7 (S)	1 443.2 (NA) (NA) (NA) 208.7 77.4	839.1 (NA) (NA) (NA) 134.5 79.5	654.7 (NA) (NA) (NA) 104.5 39.6
2369- 23692 23693 23699 23690	Girls', children's, and infants' outerwear, n.e.c.^{15 16} Girls', children's, and infants' coats and suits Girls', children's, and infants' outerwear, n.e.c. Contract and commission receipts Girls', children's and infants' outerwear, n.e.c., n.s.k.	1 959.8 142.6 1 519.7 229.4 68.2	1 476.7 123.8 1 160.0 116.3 76.6	1 428.7 138.3 1 078.5 117.8 94.1	1 460.9 163.6 1 103.9 129.6 63.5	1 389.0 177.0 995.5 139.5 77.0	1 407.2 171.5 1 012.1 155.6 68.0	957.4 171.5 612.6 97.9 75.4	822.9 169.1 487.8 104.9 61.1
2371- 23710	Fur goods Fur goods	399.2 399.2	350.8 350.8	377.4 377.4	380.5 380.5	425.3 425.3	397.9 397.9	358.5 358.5	213.6 213.6
2381- 23813 23814 23810	Dress and work gloves and mittens Gloves and mittens made from purchased fabrics Gloves and mittens made from leather-and-fabrics combinations Dress and work gloves and mittens, n.s.k.	192.4 139.6 43.0 9.7	213.0 192.7 20.3	226.9 200.5 26.4	217.0 204.0 13.0	208.9 191.8 17.1	206.6 195.0 11.6	278.3 262.3 16.0	171.7 159.2 12.5
2384- 23840	Robes and dressing gowns Robes and dressing gowns	502.3 502.3	445.4 445.4	421.2 421.2	443.6 443.6	432.1 432.1	416.0 416.0	243.3 243.3	169.6 169.6
2385- 23851 23859 23850	Waterproof outerwear Raincoats and other waterproof outerwear Contract and commission receipts Waterproof outerwear, n.s.k.	318.1 288.9 11.5 17.7	289.7 240.8 29.0 19.9	329.9 255.5 29.6 44.7	409.4 344.4 31.1 34.0	445.4 368.9 34.5 42.1	429.7 357.0 37.7 35.0	338.9 285.8 25.8 27.3	321.6 252.4 35.2 34.0
2386- 23860	Leather and sheep-lined clothing Leather and sheep-lined clothing	175.1 175.1	143.1 143.1	146.5 146.5	189.0 189.0	206.2 206.2	207.3 207.3	210.6 210.6	173.5 173.5
2387- 23871 23872 23870	Apparel belts Belts, leather Belts, other than leather Apparel belts, n.s.k.	546.8 329.4 177.7 39.7	436.5 275.2 129.3 32.0	442.6 277.5 136.2 28.9	475.6 278.2 155.6 41.8	492.4 272.8 179.9 39.7	474.2 261.5 164.7 48.0	244.3 155.5 58.2 30.6	234.1 157.9 47.0 29.2
2389- 23890	Apparel and accessories, n.e.c. Apparel and accessories, n.e.c.	458.5 458.5	218.2 218.2	224.2 224.2	226.8 226.8	248.2 248.2	243.2 243.2	175.7 175.7	123.2 123.2
2391- 23910	Curtains and draperies Curtains and draperies	1 394.9 1 394.9	1 426.7 1 426.7	1 268.2 1 268.2	1 249.0 1 249.0	1 058.6 1 058.6	1 008.3 1 008.3	936.7 936.7	626.2 626.2
2392- 23921 23922 23923 23924 23920	Housefurnishings, n.e.c. Bedspreads and bedsets (not made in a weaving mill) Sheets and pillowcases (made from purchased fabrics) Towels and washcloths (made from woven fabrics) Other housefurnishings Housefurnishings, n.e.c., n.s.k.	4 428.9 363.2 717.8 500.6 2 326.8 520.5	3 968.8 398.9 682.9 420.4 2 043.1 423.4	3 905.4 375.7 813.5 394.4 1 933.1 388.7	3 668.3 340.3 740.6 433.1 1 689.1 465.2	3 596.4 331.4 775.5 423.0 1 677.5 360.7	3 299.3 314.4 677.6 355.9 1 477.6 456.8	2 202.3 300.4 479.5 276.6 885.8 260.0	1 442.3 266.6 318.5 84.0 577.7 195.5
2393- 23930	Textile bags Textile bags, except laundry, wardrobe, and shoe	544.2 544.2	493.2 493.2	486.4 486.4	468.4 468.4	441.4 441.4	409.3 409.3	277.8 277.8	231.5 231.5
2394- 23940	Canvas and related products Canvas and related products	983.1 983.1	923.0 923.0	878.5 878.5	877.8 877.8	736.2 736.2	690.9 690.9	465.6 465.6	272.1 272.1
2395- 23952 23958	Pleating and stitching¹⁷ Embroideries, except Schiffli machine products Commission embroidering (except Schiffli machine), tucking, pleating, etc., for the trade	611.0 334.3 157.6	(NA) (NA) (NA)	(NA) (NA) (NA)	(NA) (NA) (NA)	(NA) (NA) (NA)	180.3 118.6 61.7	(NA) (NA) (NA)	(NA) (NA) (NA)
23950	Embroideries, tucking, pleating, and stitching, n.s.k.	119.1	(NA)	(NA)	(NA)	(NA)	(¹⁸)	(NA)	(NA)
2396- 23961	Automotive and apparel trimmings¹⁷ Men's and boys' suit and coat findings, hatters' fur, and other hat and cap materials	4 506.1 235.6	(NA) 214.2	(NA) 206.9	(NA) 206.8	(NA) 212.8	2 764.1 183.5	(NA) 104.4	(NA) 94.2
23962 23963 23964 23960	Automobile trimmings Other trimmings and findings Printing on garments and apparel accessories; stamped art goods Automotive and apparel trimmings, n.s.k.	2 512.4 547.3 872.8 378.1	2 376.7 448.6 (NA) (NA)	2 353.5 349.6 (NA) (NA)	2 222.7 386.6 (NA) (NA)	1 913.7 292.2 (NA) (NA)	1 384.3 282.5 489.8 ¹⁸ 424.0	1 737.7 147.4 (NA) (NA)	822.3 147.4 (NA) (NA)
2397- 23970	Schiffli machine embroideries Schiffli machine embroideries	251.1 251.1	226.1 226.1	216.4 216.4	249.0 249.0	222.6 222.6	263.7 263.7	146.3 146.3	99.1 99.1
2399- 23990	Fabricated textile products, n.e.c. Fabricated textile products, n.e.c.	2 411.5 2 411.5	2 071.8 2 071.8	2 199.7 2 199.7	2 150.1 2 150.1	1 692.6 1 692.6	1 458.1 1 458.1	1 158.9 1 158.9	733.9 733.9

See footnotes at end of table.

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1987 product code	Product class	1987	1986 ¹	1985 ¹	1984 ¹	1983 ¹	1982	1977	1972
2411-	Logging	10 583.0	7 778.4	7 675.0	7 927.4	8 024.5	7 448.4	5 757.5	2 601.4
24111	Softwood logs, bolts, and timber	3 373.4	2 833.7	2 887.3	3 000.2	3 177.5	3 083.2	2 580.7	1 090.9
24112	Hardwood logs, bolts, and timber	305.1	262.5	304.4	309.7	284.6	257.5	241.8	
24113	Pulpwood	732.7	613.2	680.4	664.3	632.9	624.6	383.2	126.4
24114	Other roundwood products	310.3	258.8	254.2	273.1	350.1	327.2	71.3	32.0
24119	Receipts for contract logging	1 616.6	956.5	958.2	877.9	950.7	780.2	757.5	404.2
24110	Logs, bolts, pulpwood, etc., n.s.k.	4 244.9	2 853.7	2 590.4	2 802.3	2 628.7	2 375.7	1 722.9	947.9
2421-	Sawmills and planing mills, general	16 964.5	14 726.7	13 012.8	13 218.9	12 509.0	9 966.2	10 465.7	6 063.3
24211	Hardwood lumber, rough and dressed, except siding	1 963.1	1 725.0	1 448.8	1 582.0	1 356.4	1 053.5	972.9	491.9
24212	Softwood lumber, rough and dressed, except siding	9 877.2	8 753.6	7 417.6	7 253.1	7 325.2	5 202.5	6 899.7	3 907.8
24213	Wood chips, except field chips	1 727.1	1 622.5	1 673.9	1 716.0	1 709.5	1 687.6	1 079.5	505.4
24217	Softwood cut stock	656.0	439.2	370.3	351.8	337.7	259.9	229.5	155.9
24218	Softwood flooring, siding, and other general sawmill and planing mill products	287.7	356.9	290.3	280.2	198.6	141.1	125.2	157.2
24219	Receipts from contract or custom sawing, kiln drying, planing, etc., of lumber or logs owned by others	171.2	84.4	90.7	96.5	97.2	77.2	90.7	40.9
24210	Sawmills and planing mills, general, n.s.k.	2 282.0	1 745.1	1 721.2	1 939.1	1 484.4	1 544.4	1 068.2	804.1
2426-	Hardwood dimension and flooring	1 650.8	1 446.8	1 368.4	1 289.2	1 023.8	872.5	807.5	571.5
24261	Hardwood flooring	478.9	423.1	397.5	380.1	259.5	187.9	159.6	118.6
24262	Hardwood dimension stock, furniture parts, and vehicle stock	740.4	676.2	667.6	620.8	524.3	452.7	451.1	304.6
24266	Wood furniture frames for household furniture	211.6	206.4	189.4	166.0	135.4	130.8	104.1	76.6
24260	Hardwood dimension and flooring, n.s.k.	219.9	141.2	113.9	122.3	104.6	101.1	92.6	71.7
2429-	Special product sawmills, n.e.c.	145.6	116.2	128.6	157.2	128.4	149.9	258.7	175.7
24290	Shingles, shakes, cooperage stock, and excelsior	145.6	116.2	128.6	157.2	128.4	149.9	258.7	175.7
2431-	Millwork	8 800.9	7 232.4	6 368.3	6 133.9	5 301.1	3 988.4	3 693.3	2 229.7
24311	Wood window units	1 995.1	1 534.8	1 289.2	1 133.5	1 048.2	692.1	609.3	279.4
24312	Wood window sash	166.7	154.5	127.0	126.5	105.7	60.6	95.4	60.7
24313	Wood window and door frames	358.4	332.1	315.4	319.7	295.3	190.2	264.6	147.0
24314	Wood doors, interior and exterior	1 509.6	1 510.0	1 324.4	1 268.3	1 006.7	775.5	707.5	527.6
24315	Other wood doors, including garage, screen, storm, etc.	995.3	804.7	739.1	696.0	555.3	480.4	479.1	193.2
24316	Wood moldings except prefinished moldings made from purchased moldings	1 085.5	947.2	861.1	875.2	789.7	507.9	569.1	406.8
24317	Prefinished wood moldings made from purchased moldings	127.6	140.2	146.2	147.8	116.8	99.1	75.0	74.1
24318	Other millwork products	882.4	668.7	588.0	595.9	553.8	405.4	288.3	161.6
24310	Millwork products, n.s.k.	1 680.3	1 140.1	978.0	971.0	829.6	777.2	605.1	379.3
2434-	Wood kitchen cabinets	4 216.5	3 199.6	2 949.9	2 887.8	2 440.4	2 001.3	1 563.2	864.5
24341	Wood kitchen cabinets and cabinetwork, stock line	1 617.4	1 380.3	1 246.7	1 166.7	971.4	708.0	689.2	436.0
24342	Wood kitchen cabinets and cabinetwork, custom	1 102.2	880.7	802.6	714.5	585.5	496.4	433.2	234.9
24343	Vanities and other cabinetwork	468.6	408.5	366.1	377.3	324.3	244.3	146.4	71.6
24340	Wood kitchen cabinets, n.s.k.	1 028.3	530.1	534.5	629.3	559.1	552.6	294.5	122.0
2435-	Hardwood veneer and plywood	1 834.5	1 512.4	1 426.7	1 501.4	1 372.4	1 237.0	1 160.0	875.3
24351	Hardwood plywood	758.6	650.0	644.9	660.3	620.7	530.6	455.8	368.9
24352	Prefinished hardwood plywood made from purchased plywood	313.2	262.8	233.5	239.7	216.2	225.8	383.8	286.7
24353	Hardwood plywood-type products	235.8	198.9	168.6	170.2	197.7	159.7	60.8	31.1
24354	Hardwood veneer, not reinforced or backed	421.4	335.7	312.9	332.6	285.5	277.7	213.7	161.3
24350	Hardwood veneer and plywood, n.s.k.	105.4	64.9	65.7	98.5	52.3	43.2	46.0	27.3
2436-	Softwood veneer and plywood	4 383.0	3 924.0	3 634.1	3 612.8	3 590.3	2 780.0	3 582.3	1 939.6
24363	Softwood plywood-type products	135.5	87.3	74.0	76.2	80.2	73.5	102.6	39.6
24364	Softwood veneer, not reinforced or backed	530.8	415.0	379.0	416.1	416.8	315.8	404.5	304.3
24365	Softwood plywood, rough	2 292.3	2 092.2	1 873.6	1 895.5	1 913.2	1 404.5		
24366	Softwood plywood, sanded	756.4	738.8	765.0	677.8	668.0	572.8		
24367	Softwood plywood specialties	582.5	554.0	539.7	509.1	482.2	381.6		
24360	Softwood veneer and plywood, n.s.k.	85.6	35.6	21.8	38.1	29.9	31.8	20.6	2.3
2439-	Structural wood members, n.e.c.	1 887.6	1 260.4	1 151.7	1 149.2	1 107.4	800.2	781.7	455.5
24390	Fabricated structural wood products	1 887.6	1 260.4	1 151.7	1 149.2	1 107.4	800.2	781.7	455.5
2441-	Nailed wood boxes and shooks	347.6	299.4	292.4	341.2	330.2	314.6	265.3	232.8
24411	Nailed or lock-corner wooden boxes	97.6	125.2	115.5	135.6	124.1	109.0	93.8	86.5
24412	Wooden box and crate shooks	180.8	137.4	137.6	160.7	152.6	156.2	127.0	100.0
24410	Nailed wooden boxes and shooks, n.s.k.	69.2	36.9	39.3	44.9	53.4	49.4	44.5	46.3
2448-	Wood pallets and skids	1 437.0	1 309.9	1 284.7	1 312.3	1 016.7	969.7	642.9	287.4
24480	Pallets and skids	1 437.0	1 309.9	1 284.7	1 312.3	1 016.7	969.7	642.9	287.4
2449-	Wood containers, n.e.c.	218.6	214.7	257.8	250.8	272.4	295.6	235.3	218.7
24490	Wood containers, n.e.c.	218.6	214.7	257.8	250.8	272.4	295.6	235.3	218.7
2451-	Mobile homes	4 044.4	3 955.9	4 139.5	4 265.3	4 790.1	3 578.9	3 175.4	3 181.6
24511	Manufactured (mobile) homes	3 476.0	3 644.3	3 718.9	3 849.5	4 273.9	3 141.7	2 895.7	3 126.6
24512	Manufactured (mobile) buildings, nonresidential	230.0	155.5	169.7	154.5	168.2	183.7	83.3	44.5
24510	Mobile homes, n.s.k.	338.4	156.1	250.8	261.3	348.0	253.5	196.4	10.5
2452-	Prefabricated wood buildings	2 334.3	1 938.5	1 657.2	1 657.2	1 450.2	1 286.5	1 863.8	989.3
24521	Components for stationary buildings (not complete units)	400.4	252.7	245.5	197.0	158.3	130.9	232.2	119.7
24522	Precut packages for stationary buildings (complete units)	374.9	387.6	353.5	386.2	328.3	287.2	362.9	157.7
24523	Stationary buildings sold as complete units and shipped in panel form	403.8	352.2	278.6	288.3	317.2	278.6	652.7	455.7
24524	Stationary buildings in three-dimensional assemblies	803.3	575.9	510.0	481.6	407.4	369.1	365.1	241.2
24520	Prefabricated wood buildings and components, n.s.k.	351.9	370.1	290.7	304.1	238.9	220.7	250.9	15.0
2491-	Wood preserving	2 151.9	1 733.4	1 637.8	1 576.6	1 364.7	1 325.0	892.2	461.4
24912	Wood poles, piles and posts owned and treated by same establishment	478.2	583.2	490.3	464.3	451.2	461.1	305.5	394.3
24913	Other wood products owned and treated by same establishment	1 265.1	838.8	828.8	801.0	675.5	617.4	418.3	
24919	Contract wood preserving	105.5	118.1	150.3	139.6	78.4	94.9	68.6	29.1
24910	Wood preserving, n.s.k.	303.0	193.2	168.3	171.6	159.6	151.6	99.8	38.0
2493-	Reconstituted wood products	2 896.4	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
24931	Particleboard, produced at this location	849.1							
24932	Waferboard and oriented strand board	513.3	1 232.0	1 032.5	936.5	712.8	567.3	476.5	286.2
24933	Medium density fiberboard (mdf) produced at this location	282.1	244.7	216.4	225.8	228.3	1144.7	1984.2	(NA)
24934	Hardboard products made from hardboard produced at this location	573.7	579.5	621.1	658.4	626.0	558.3	508.0	(NA)
24935	Insulating board (fiberboard)	205.4	197.2	251.3	245.9	225.0	188.9	222.2	219.7
24936	Hardboard products made from purchased hardboard	206.4	188.9	161.4	179.8	167.5	148.1	171.3	(NA)
24937	Prefinished particleboard and medium density fiberboard (mdf) made from purchased particleboard and mdf	216.1	174.4	147.1	137.4	105.0	110.3	1984.9	(NA)
24930	Reconstituted wood products, n.s.k.	50.1	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

See footnotes at end of table.

Table 1. Historical Statistics for Product Classes—Value Shipped by All Producers: 1987 and Earlier Years—Con.

[Million dollars. Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes.]

1987 product code	Product class	1987	1986 ¹	1985 ¹	1984 ¹	1983 ¹	1982	1977	1972
2499-	Wood products, n.e.c.	3 183.1	(NA)	(NA)	(NA)	(NA)	2 304.8	1 602.1	1 055.1
24991	Mirror and picture frames	605.1	564.0	563.1	548.2	685.5	505.5	314.6	173.0
24992	Cork and cork products	43.3	29.0	26.1	28.8	32.6	40.9	32.8	18.1
24994	Miscellaneous wood products	1 423.8	(NA)	(NA)	(NA)	(NA)	1 164.8	882.7	536.1
24990	Wood products, n.e.c., n.s.k.	1 111.0	²⁰ 828.8	²⁰ 728.7	²⁰ 775.2	²⁰ 638.1	²⁰ 593.6	²⁰ 372.0	²⁰ 327.9
2511-	Wood household furniture	7 454.2	6 713.6	6 263.3	6 166.1	5 457.4	4 846.1	3 890.7	2 716.8
25112	Wood living room, library, family room, and den furniture, except sewing machine cabinets	1 499.7	1 702.6	1 563.5	1 593.5	1 356.4	1 221.7	859.8	614.4
25113	Wood dining room and kitchen furniture, except cabinets	1 477.4	1 291.6	1 255.5	1 245.8	1 171.7	1 014.7	962.3	603.6
25115	Wood bedroom furniture	2 271.2	2 151.1	2 119.6	2 036.6	1 785.1	1 557.0	1 475.9	1 151.0
25116	Infants' and children's wood furniture	272.7	350.6	321.1	283.6	188.0	158.8	118.8	82.5
25117	Wood outdoor furniture, unpainted wood furniture, and unassembled and knock-down wood furniture	810.1	562.0	459.9	406.6	323.0	249.9	185.8	107.9
25110	Wood household furniture, n.s.k.	1 123.0	721.2	635.3	658.3	691.6	685.4	473.7	279.2
2512-	Upholstered household furniture	4 911.8	4 678.7	4 287.4	4 103.8	3 772.8	3 319.8	2 735.7	1 990.5
25120	Upholstered wood household furniture, except dual-purpose sleep furniture	4 911.8	4 678.7	4 287.4	4 103.8	3 772.8	3 319.8	2 735.7	1 990.5
2514-	Metal household furniture	1 947.3	1 783.9	1 769.6	1 796.1	1 604.2	1 517.4	1 231.2	859.3
25145	Metal household dining room and kitchen furniture, except upholstered	370.4	451.1	467.2	501.0	451.8	422.5	392.5	317.0
25146	Metal porch, lawn, outdoor, and casual furniture, except upholstered	536.4	515.1	486.0	475.9	400.1	399.4	275.9	177.1
25147	Other metal household furniture, including upholstered	771.1	642.8	631.8	647.5	591.0	539.2	445.5	311.4
25140	Metal household furniture, n.s.k.	269.5	174.9	184.6	171.7	161.3	156.3	117.3	53.8
2515-	Mattresses, foundations, and convertible beds	2 693.5	2 267.5	2 170.3	2 071.0	2 145.8	2 042.6	1 481.5	1 079.6
25151	Innerspring mattresses, other than crib size	890.6	806.4	770.2	739.8	763.6	705.3	492.6	336.6
25152	Other mattresses	145.5	129.5	115.4	123.8	161.2	159.1	108.3	78.4
25153	Foundations	554.1	473.2	463.8	482.9	494.4	461.3	360.4	277.8
25155	Dual-purpose sleep furniture	583.6	546.5	482.1	411.9	385.4	396.2	334.4	265.0
25156	Sleep system ensembles, excluding conventional water beds	80.3	35.9	46.9	45.8	22.7	23.9	(NA)	(NA)
25150	Mattresses and bedsprings, n.s.k.	439.3	210.5	200.3	208.4	259.9	255.6	185.6	121.8
2517-	Wood television and radio cabinets	371.8	420.7	398.6	425.8	338.4	302.4	312.8	293.0
25170	Wood television, radio, stereo, and sewing machine cabinets	371.8	420.7	398.6	425.8	338.4	302.4	312.8	293.0
2519-	Household furniture, n.e.c.	426.4	407.4	361.6	378.0	401.3	324.5	281.8	190.3
25190	Household furniture, except wood or metal	426.4	407.4	361.6	378.0	401.3	324.5	281.8	190.3
2521-	Wood office furniture	2 016.5	1 662.2	1 623.5	1 545.0	1 231.1	1 132.1	562.2	259.1
25210	Wood office furniture	2 016.5	1 662.2	1 623.5	1 545.0	1 231.1	1 132.1	562.2	259.1
2522-	Office furniture, except wood	5 243.0	4 626.7	4 422.9	3 777.6	3 213.4	2 951.6	1 353.0	789.1
25221	Office seating, including upholstered, except wood	1 174.8	1 115.1	1 099.3	930.8	768.6	708.0	388.1	192.8
25225	Office desks and extensions, except wood	322.2	329.5	334.4	320.4	249.2	232.2	230.7	153.7
25226	Office storage units, files, and tables, except wood	1 417.7	1 292.7	1 242.2	1 191.2	1 001.1	991.1	(NA)	(NA)
25227	Office furniture, n.e.c.	2 113.8	1 804.2	1 676.6	1 458.1	1 129.7	969.8	700.7	405.7
25220	Office furniture, except wood, n.s.k.	214.5	85.3	70.4	77.1	66.7	50.6	33.5	36.9
2531-	Public building and related furniture	2 029.8	1 448.7	1 262.6	1 162.0	1 091.7	1 052.5	724.7	485.2
25311	School furniture, except stone and concrete	277.2	324.6	278.5	246.9	257.0	229.5	185.4	181.2
25312	Public building and related furniture, except school furniture	1 540.9	1 011.9	880.4	803.3	762.5	744.1	479.5	268.4
25310	Public building and related furniture, n.s.k.	211.8	112.2	103.7	111.8	72.2	79.0	59.8	35.6
2541-	Wood partitions and fixtures	2 778.0	2 093.6	2 111.9	2 093.4	1 808.1	1 676.8	1 070.8	772.1
25411	Wood partitions, shelving, and lockers	183.7	276.2	268.4	259.5	176.9	152.5	135.6	77.0
25412	Plastics laminated fixture tops	431.6	368.1	353.3	322.7	290.7	236.9	204.2	141.8
25413	Wood fixtures for stores, banks, and offices, and other miscellaneous fixtures	1 420.1	1 099.8	1 155.8	1 152.7	1 080.3	997.0	561.1	354.0
25410	Wood partitions and fixtures, n.s.k.	742.7	349.4	334.4	358.5	260.2	290.3	169.9	199.3
2542-	Partitions and fixtures, except wood	2 434.0	2 411.5	2 388.2	2 230.5	1 892.3	1 828.2	1 215.8	713.2
25421	Metal partitions, prefabricated (assembled or knocked-down)	170.3	266.9	261.7	238.6	232.5	218.0	96.7	79.4
25422	Metal shelving and lockers	527.6	599.9	556.6	524.4	448.4	441.4	349.4	236.2
25425	Metal storage racks and accessories	425.7	463.3	487.1	397.9	350.9	342.9	275.6	95.2
25424	Metal fixtures for stores, banks, and offices, and miscellaneous fixtures	961.4	866.4	865.2	827.3	692.1	636.3	391.0	217.3
25425	Nonwood and nonmetal partitions and fixtures	²¹ 31.8	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
25420	Partitions and fixtures, except wood, n.s.k.	317.3	215.0	217.6	242.3	170.3	161.6	103.1	85.1
2591-	Drapery hardware and blinds and shades	1 671.9	1 388.0	1 326.4	1 232.9	1 187.8	1 001.2	615.3	311.3
25913	Window shades and accessories	208.4	264.4	247.2	211.9	215.6	181.0	140.3	80.9
25914	Venetian blinds	810.9	612.9	581.9	541.1	516.0	406.5	99.0	29.1
25915	Other shades and blinds, n.e.c., and curtain and drapery rods, poles, and other hardware	414.5	402.5	413.7	408.1	353.5	301.8	320.3	160.4
25910	Drapery hardware and window blinds and shades, n.s.k.	238.2	108.1	83.5	71.8	102.7	111.9	55.7	40.9
2599-	Furniture and fixtures, n.e.c.	1 878.1	1 719.9	1 695.8	1 577.1	1 428.8	1 271.3	687.4	379.9
25991	Hospital beds	182.1							
25992	Restaurant, cafeteria, and bar furniture and fixtures	721.5							
25994	All other furniture and fixtures, n.e.c.	279.6	1 719.9	1 695.8	1 577.1	1 428.8	1 271.3	687.4	379.9
25990	Furniture and fixtures, n.e.c., n.s.k.	694.8							
2611-	Pulp mills	5 356.7	4 188.8	3 629.5	4 183.9	3 624.3	3 644.2	2 466.4	1 132.4
26111	Special alpha and dissolving wood pulp	686.9	587.6	561.6	617.6	589.9	593.8	570.5	304.7
26113	Sulfate wood pulp	4 123.8	3 139.6	2 626.6	3 125.3	2 479.7	2 510.8		
26114	Sulfite and other wood pulp	247.5	211.8	228.4	200.4	209.6	183.0	1 894.8	826.0
26115	Pulp, other than wood, and miscellaneous pulp mill byproducts, n.e.c.	297.9	249.3	208.3	236.8	336.0	353.0		
26110	Pulp mill products, n.s.k.	.6	.3	4.6	3.8	9.1	3.6	1.1	1.7
2621-	Paper mills	27 121.6	24 476.7	23 631.0	24 354.3	21 361.0	20 056.9	12 438.2	6 182.2
26211	Newsprint	2 765.7	2 409.5	2 385.4	2 369.8	2 220.1	2 161.6	989.3	506.0
26212	Uncoated groundwood papers	934.4	942.3	996.4	1 043.8	888.6	841.5	539.0	232.7
26213	Clay coated printing and converting papers	5 959.3	5 468.0	5 369.0	5 362.7	4 232.4	3 787.3	2 260.9	1 024.8
26214	Uncoated free sheet	8 143.3	7 329.8	6 648.1	6 899.1	5 999.2	5 530.6	3 352.7	74.4
26215	Bleached bristols, excluding cotton fiber index and bogus	778.4	697.4	673.9	708.7	667.6	605.2	474.3	244.4
26216	Cotton fiber papers and thin papers	737.8	722.5	684.9	762.4	619.1	599.3	496.1	108.2
26217	Unbleached kraft packaging and industrial converting papers	1 314.3	1 125.9	1 101.7	1 349.1	1 219.0	1 199.8	1 098.7	602.9
26218	Packaging and industrial converting papers, except unbleached kraft	952.7	869.6	879.9	858.7	738.3	666.7	560.6	379.3
26219	Special industrial papers	1 058.8	997.0	1 007.3	1 058.2	960.0	942.8	550.7	272.1
2621A	Tissue papers and other machine-creped papers	4 257.2	3 884.3	3 843.3	3 882.3	3 782.2	3 685.4	²² 115.9	²² 59.1
2621B	Construction papers	127.6	137.3	158.7	174.7	189.2	165.3	(21)	(22)
26210	Paper mill products, n.s.k.	92.0	30.4	41.3	59.4	34.2	36.7		

See footnotes at end of table.

Table 1. Historical Statistics for Product Classes—Value Shipped by All Producers: 1987 and Earlier Years—Con.

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1987 product code	Product class	1987	1986 ¹	1985 ¹	1984 ¹	1983 ¹	1982	1977	1972
2631-	Paperboard mills	13 697.1	11 316.6	10 574.4	11 686.2	9 932.8	9 390.0	6 434.7	3 657.4
26311	Unbleached kraft packaging and industrial converting paperboard	6 415.5	5 110.6	4 655.3	5 218.1	4 101.0	4 076.1	2 697.2	1 562.2
26312	Bleached packaging and industrial converting paperboard	2 558.8	2 285.9	2 077.1	2 366.6	2 215.3	2 146.0	1 364.6	696.3
26313	Semichemical paperboard	1 607.7	1 344.0	1 223.9	1 355.3	987.2	1 012.5	748.9	415.3
26314	Recycled paperboard	2 997.3	2 474.5	2 512.6	2 607.0	2 537.3	2 062.1	1 562.7	929.5
26318	Wet machine board	64.0	66.5	78.3	81.6	64.8	62.8	59.3	46.6
26310	Paperboard mill products, n.s.k.	53.9	35.2	27.1	57.6	27.4	30.4	2.0	7.5
2652-	Setup paperboard boxes	517.9	522.4	480.8	492.6	552.3	485.1	377.7	342.6
26520	Setup (rigid) paperboard boxes	517.9	522.4	480.8	492.6	552.3	485.1	377.7	342.6
2653-	Corrugated and solid fiber boxes	15 602.2	13 037.7	12 714.8	12 718.7	11 045.1	10 303.1	7 182.8	4 196.9
26530	Corrugated and solid fiber boxes, including pallets	15 602.2	13 037.7	12 714.8	12 718.7	11 045.1	10 303.1	7 182.8	4 196.9
2655-	Fiber cans, drums, and similar products	1 493.9	1 564.3	1 678.7	1 679.4	1 643.2	1 490.3	1 040.4	620.0
26551	Paperboard fiber drums with ends of any material	311.5	314.8	333.1	312.7	317.2	289.8	223.8	136.9
26552	Fiber cans, tubes, and similar fiber products	1 069.9	1 176.3	1 265.7	1 286.0	1 283.5	1 152.3	782.6	465.7
26550	Fiber cans, drums, and similar products, n.s.k.	112.4	73.2	79.9	80.7	42.5	48.2	34.0	17.4
2656-	Sanitary food containers, except folding	1 959.6	2 072.3	2 113.9	2 019.5	1 914.6	1 841.0	(NA)	(NA)
26561	Milk and milk-type paperboard cartons	558.7	569.2	590.1	577.5	535.2	550.5	480.0	316.4
26562	Cups and liquid-tight paper and paperboard containers	848.5	1 060.2	1 075.9	964.6	961.4	885.2	594.1	458.8
26563	Other sanitary paper and paperboard food containers, boards, and trays	475.9	395.8	398.8	406.8	375.6	362.2	(NA)	(NA)
26560	Sanitary food containers, except folding, n.s.k.	76.5	47.1	49.1	70.6	42.4	43.1	48.6	21.3
2657-	Folding paperboard boxes	5 521.8	5 309.4	5 191.4	5 056.8	4 751.3	4 458.6	(NA)	(NA)
26570	Folding paperboard packaging and packaging components	5 521.8	5 309.4	5 191.4	5 056.8	4 751.3	4 458.6	(NA)	(NA)
2671-	Paper coating and laminating, packaging	2 460.1	(NA)	(NA)	(NA)	(NA)	1 329.2	(NA)	(NA)
26711	Single-web paper, coated, for packaging uses	474.4	607.4	549.8	517.1	446.4	433.9	(NA)	(NA)
26712	Single-web film, coated, for packaging uses	879.1	413.9	344.5	317.2	194.0	168.2	(NA)	(NA)
26713	Paper/paper multiweb laminations for packaging uses	249.1	197.0	181.2	187.4	155.0	182.3	(NA)	(NA)
26714	Multiweb laminated rolls and sheets, except paper/paper and foil, for packaging uses	857.6	863.5	751.8	683.8	562.7	544.8	(NA)	(NA)
26710	Paper coating and laminating, packaging, n.s.k.	-	(NA)	(NA)	(NA)	(NA)	-	(NA)	(NA)
2672-	Paper coating and laminating, n.e.c.	5 497.7	(NA)	(NA)	(NA)	(NA)	3 574.0	(NA)	(NA)
26721	Printing paper, coated	464.5	373.3	394.3	319.7	322.0	241.6	172.0	111.8
26722	Gummed products	218.4	191.9	203.1	290.1	228.9	211.9	187.6	139.2
26723	Pressure-sensitive products	3 100.0	2 728.4	2 660.8	2 616.3	2 110.6	1 867.6	1 177.7	574.5
26724	Other coated and processed papers	1 200.0	1 348.4	1 214.5	1 135.7	1 023.3	900.3	(NA)	(NA)
26720	Paper coating and laminating, n.e.c., n.s.k.	514.7	(NA)	(NA)	(NA)	(NA)	352.6	(NA)	(NA)
2673-	Bags: plastics, laminated, and coated	3 936.5	(NA)	(NA)	(NA)	(NA)	2 762.6	(NA)	(NA)
26731	Specialty bags and liners, single-web paper, coated	262.4	235.0	264.7	255.3	279.8	205.5	(NA)	(NA)
26732	Specialty bags and liners, single-web film	2 856.9	2 922.4	2 627.2	2 346.6	2 271.7	1 964.0	(NA)	(NA)
26733	Specialty bags and liners, multiweb laminations and foil	387.7	370.5	241.5	235.0	244.4	222.1	(NA)	(NA)
26730	Bags: plastics, laminated, and coated, n.s.k.	429.6	(NA)	(NA)	(NA)	(NA)	371.0	(NA)	(NA)
2674-	Bags: uncoated paper and multiwall	2 360.6	(NA)	(NA)	(NA)	(NA)	2 010.3	(NA)	(NA)
26741	Grocers' bags and sacks and variety and shopping bags, uncoated paper	1 141.8	1 006.5	1 084.7	1 183.4	1 181.9	1 163.8	(NA)	(NA)
26742	Shipping sacks and multiwall bags, all materials except textiles	1 196.6	889.3	884.7	963.1	878.1	846.5	672.6	428.5
26740	Bags, uncoated paper and multiwall, n.s.k.	22.1	(NA)	(NA)	(NA)	(NA)	-	(NA)	(NA)
2675-	Die-cut paper and board	1 701.1	1 690.0	1 651.0	1 880.0	1 797.6	1 605.1	1 034.3	645.9
26751	Die-cut paper and board office supplies	892.7	642.5	618.5	652.3	669.2	597.9	484.9	342.9
26752	Die-cut paper and board products except office supplies	164.4	298.4	265.5	264.0	254.7	199.4	438.4	271.3
26753	Pasted, lined, laminated, or surface-coated paperboard	457.6	567.6	592.3	828.3	745.3	684.8	111.0	31.7
26750	Die-cut paper and paperboard, n.s.k.	186.4	181.5	174.6	135.4	128.3	123.0		
2676-	Sanitary paper products	11 171.7	10 732.0	10 193.7	9 771.5	8 615.8	8 373.5	4 562.6	1 981.9
26761	Sanitary napkins and tampons	1 350.0	1 334.3	1 167.0	1 162.5	944.3	915.1	588.7	281.1
26763	Disposable diapers, except diaper liners, paper	3 202.9	2 922.9	2 608.9	2 593.9	2 175.0	2 155.0	3 948.3	1 692.7
26764	Sanitary tissue paper products	6 503.2	6 377.6	6 338.2	5 920.7	5 457.4	5 259.8	25.6	8.1
26760	Sanitary paper products, n.s.k.	115.6	97.1	79.6	94.4	39.1	40.1		
2677-	Envelopes	2 499.5	2 229.7	2 086.1	2 107.6	1 874.9	1 751.6	980.6	587.9
26770	Envelopes, all types and materials	2 499.5	2 229.7	2 086.1	2 107.6	1 874.9	1 751.6	980.6	587.9
2678-	Stationery products	1 115.2	1 192.3	1 107.4	1 160.9	1 057.6	959.2	630.5	421.5
26781	Stationery	283.2	342.2	314.7	304.9	309.5	261.8	141.2	118.1
26782	Tablets, pads, and related products	705.9	760.1	686.9	736.0	653.9	603.1	425.5	219.6
26780	Stationery products, n.s.k.	126.1	90.1	105.8	120.0	94.3	94.4	63.8	83.8
2679-	Converted paper products, n.e.c.	3 385.5	3 217.1	3 133.3	3 164.5	2 821.0	2 678.4	1 988.4	823.4
26791	Wallcoverings	530.2	519.8	540.3	497.6	459.6	396.9	306.5	83.0
26792	Gift wrap paper	591.7	565.4	512.5	491.9	401.0	389.6		
26793	Paper business machine supplies and other miscellaneous office supplies, n.e.c.	228.6	198.5	195.6	190.7	187.2	221.8	231	23572.2
26794	Molded pulp goods	272.9	268.7	260.3	236.3	217.4	242.3	239.6	161.6
26795	Other converted paper and board products	1 227.7	1 250.5	1 211.8	1 261.7	1 210.2	1 082.6	(²³)	(²³)
26790	Converted paper products, n.e.c., n.s.k.	534.4	412.2	412.9	486.3	345.7	345.2	242.7	6.6
2711-	Newspapers	30 494.7	27 716.0	25 614.1	24 033.6	22 292.9	20 313.7	12 468.1	7 901.1
27111	Daily and Sunday newspapers: receipts from subscriptions and sales	5 212.0	4 966.3	4 582.2	4 355.1	4 260.3	3 922.5	2 561.1	1 746.8
27112	Daily and Sunday newspapers: receipts from advertising	20 176.2	18 730.3	17 507.9	16 338.7	14 640.9	13 232.8	8 140.5	5 213.8
27113	Weekly and other newspapers: receipts from subscriptions and sales	573.0	579.3	473.0	468.9	471.1	429.6	240.6	106.9
27114	Weekly and other newspapers: receipts from advertising	1 687.5	1 668.8	1 383.3	1 343.5	1 290.3	1 106.9	734.5	386.5
27110	Newspapers, n.s.k.	2 845.9	1 871.4	1 667.7	1 527.5	1 630.3	1 621.5	791.4	447.1
2721-	Periodicals	16 492.1	14 445.2	14 077.1	12 883.5	11 622.9	10 625.8	5 528.8	3 187.0
27211	Farm periodicals: subscriptions, sales, and advertising	183.5	279.5	294.2	270.8	282.0	246.9	107.5	75.9
27212	Specialized business and professional periodicals: subscriptions and sales	1 427.1	1 336.0	1 299.4	1 134.8	1 076.7	952.8	464.2	262.2
27213	Specialized business and professional periodicals: advertising	2 614.5	2 643.2	2 513.2	2 309.0	1 887.0	1 647.5	850.2	647.9
27214	General and consumer periodicals: subscriptions	2 749.2	2 416.0	2 294.1	2 138.8	2 057.6	1 596.6		
2721B	General and consumer periodicals: single copy sales	1 365.0	1 330.7	1 323.4	1 265.0	1 150.0	963.8	1 685.7	832.8
2721C	General and consumer periodicals: advertising	4 298.5	3 938.5	3 798.4	3 517.5	3 247.1	3 161.8	1 595.5	895.7
2721D	Other periodicals, n.e.c.	671.8	771.5	727.8	663.3	561.4	509.8	250.7	282.1
27210	Periodicals, n.s.k.	3 182.4	1 729.9	1 826.4	1 654.2	1 361.1	1 546.6	575.0	190.4
2731-	Book publishing	11 629.9	10 649.0	10 167.0	9 383.9	8 398.7	7 812.6	5 007.7	2 915.4
27311	Textbooks, including teachers' editions	2 953.5	3 179.3	2 905.6	2 596.7	2 373.7	2 167.9	1 408.7	809.6
27313	Technical, scientific, and professional books	1 827.5	1 925.4	1 789.5	1 715.5	1 441.1	1 359.6	684.1	403.0
27314	Religious books	492.1	454.6	467.0	420.9	369.8	322.1	241.6	131.2

See footnotes at end of table.

Table 1. Historical Statistics for Product Classes—Value Shipped by All Producers: 1987 and Earlier Years—Con.

[Million dollars. Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 product code	Product class	1987	1986 ¹	1985 ¹	1984 ¹	1983 ¹	1982	1977	1972
2731-	Book publishing—Con.								
27314	Religious books—Con.								
2731A	Mass market paperback books, rack size	836.6	799.5	804.5	779.4	579.1	553.4	1 895.6	1 006.7
2731B	Book club books	650.2	446.8	435.2	420.2	470.8	417.9		
2731C	Mail order books	698.1	616.1	591.5	579.9	508.4	508.6		
2731D	Adult trade and juvenile books	1 939.4	1 675.1	1 608.2	1 352.3	1 223.2	1 111.4		
2731E	General reference books	510.8	424.6	388.6	345.1	319.3	299.0	300.1	235.3
2731F	Other books, excluding pamphlets	166.8	185.2	165.7	190.2	217.7	218.5	110.4	125.4
2731G	Pamphlets (5 through 48 pages)	140.7	82.9	84.6	79.1	77.0	75.4	49.1	48.7
27310	Book publishing, n.s.k.	1 414.3	859.6	926.5	904.6	818.7	778.7	318.1	155.5
2732-	Book printing	3 240.9	3 415.2	3 246.5	2 973.9	2 730.2	2 501.9	1 830.6	1 049.9
27323	Textbooks, printing and binding	515.7	661.5	571.9	476.7	360.7	335.1	1 670.1	957.7
27324	Technical, scientific, and professional books, printing and binding	589.5	441.0	431.1	370.7	364.4	289.5		
27325	Religious books, printing and binding	141.4	116.2	110.7	116.3	100.5	107.3		
27326	General books (trade, etc.), printing and binding	709.8	767.3	762.1	727.9	637.2	615.4		
2732A	Other books, n.e.c., printing and binding	642.6	608.6	585.5	522.4	364.8	383.6	160.5	92.2
2732B	Books, printing only, not bound	120.9	108.1	116.8	118.3	115.0	111.8		
2732C	Pamphlets, printing only or printing and binding	132.3	350.6	332.1	302.4	218.0	200.8		
27320	Books, printing only or printing and binding, n.s.k.	388.8	361.9	336.2	339.1	569.5	458.4		
2741-	Miscellaneous publishing	8 176.6	5 157.0	4 748.4	3 496.7	3 182.2	3 096.6	1 935.1	1 058.3
27416	Telephone directories, publishing	3 042.9	1 750.9	1 603.0	973.5	905.4	882.7	456.9	244.1
27417	Catalogs and directories, except telephone directories, publishing	606.4							
27418	Business service publications, publishing	932.0	917.0	843.1	753.3	578.2	535.5	416.7	241.9
27419	Patterns, including clothing patterns	173.3	181.0	173.0	185.0	184.5	181.8	(2 ^a)	(2 ^a)
2741A	Shopping news, publishing	774.4	1 404.0	1 262.1	1 077.7	1 024.7	1 010.5	24727.0	24401.1
2741B	Other miscellaneous publishing	863.5							
27410	Miscellaneous publishing, n.s.k.	1 784.1	904.1	867.2	507.1	489.5	486.0	334.5	171.2
2752-	Commercial printing, lithographic (offset)	32 143.1	26 529.3	25 092.4	23 683.0	20 545.0	18 777.9	8 980.2	4 919.6
27521	Magazine and periodical printing (lithographic)	3 779.6	3 694.3	3 656.6	3 183.9	2 800.5	2 536.2	1 287.5	631.6
27522	Label and wrapper printing (lithographic)	794.0	863.7	831.9	769.8	731.8	677.0	391.3	280.3
27523	Catalog and directory printing (lithographic)	2 868.7	2 649.0	2 464.7	2 298.2	1 890.2	1 804.2	838.3	464.1
27524	Financial and legal printing (lithographic)	1 582.5	1 185.8	1 092.9	1 038.9	1 123.1	957.5	471.6	271.1
27525	Advertising printing (lithographic)	9 688.9	8 315.9	7 771.2	7 190.7	5 528.4	4 985.1	2 407.7	1 553.9
27526	Other general job printing (lithographic)	5 597.8	3 936.0	3 823.6	3 726.5	3 543.2	3 343.3	2 178.1	967.7
27520	Commercial printing, lithographic, n.s.k.	7 831.6	5 884.6	5 451.4	5 475.1	4 927.8	4 474.6	1 405.7	750.9
2754-	Commercial printing, gravure	2 740.2	2 734.6	2 731.6	2 627.5	2 384.9	2 159.0	1 108.3	725.4
27541	Magazine and periodical printing (gravure)	562.1	575.0	605.4	629.1	576.6	521.0	275.5	(NA)
27542	Label and wrapper printing (gravure)	434.4	526.5	501.6	494.9	499.0	437.4	276.2	189.9
27543	Catalog and directory printing (gravure)	945.1	941.7	943.8	831.8	701.7	651.2	233.5	(NA)
27545	Advertising printing (gravure)	479.0	360.9	360.0	363.6	320.4	286.4	143.2	100.9
27546	Other commercial printing (gravure)	176.1	143.9	134.7	136.0	118.5	102.7	91.5	46.8
27540	Commercial printing, gravure, n.s.k.	143.4	186.6	186.1	172.1	168.7	160.4	88.4	32.1
2759-	Commercial printing, n.e.c.	9 112.0	(NA)	(NA)	(NA)	(NA)	6 420.0	(NA)	(NA)
27591	Magazine and periodical printing (letterpress)	157.8	(NA)	(NA)	(NA)	(NA)	25267.2	(NA)	(NA)
27592	Label and wrapper printing (letterpress)	422.5	(NA)	(NA)	(NA)	(NA)	483.8	(NA)	(NA)
27593	Catalog and directory printing (letterpress)	224.3	(NA)	(NA)	(NA)	(NA)	25224.0	(NA)	(NA)
27594	Financial and legal printing (letterpress)	267.8	(NA)	(NA)	(NA)	(NA)	25399.4	(NA)	(NA)
27595	Advertising printing (letterpress)	592.4	(NA)	(NA)	(NA)	(NA)	25337.5	(NA)	(NA)
27596	Other general job printing (letterpress)	1 239.2	(NA)	(NA)	(NA)	(NA)	25798.2	(NA)	(NA)
27597	Flexographic printing	1 231.4	(NA)	(NA)	(NA)	(NA)	25595.6	(NA)	(NA)
27598	Screen printing, except on textiles	1 189.9	1 063.7	1 045.6	929.6	775.9	696.9	314.7	172.1
27599	Engraving	323.5	268.6	235.3	236.7	242.2	228.2	(NA)	(NA)
2759A	Nonimpact printing, using laser and ink-jet equipment ²⁶	109.7	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
27590	Commercial printing, n.e.c., n.s.k.	3 353.5	(NA)	(NA)	(NA)	(NA)	2 549.2	(NA)	(NA)
2761-	Manifold business forms	6 787.7	6 585.8	6 225.4	5 904.5	5 014.8	4 812.2	2 702.6	1 381.9
27612	Unit set forms	1 418.9	1 528.7	1 503.4	1 438.3	1 255.9	1 187.7	885.3	514.2
27613	Manifold books	261.0	307.8	271.9	289.8	253.5	238.5	129.5	51.5
27615	Custom continuous forms	2 726.4	2 767.6	2 559.7	2 312.3	1 776.6	1 731.6	896.0	553.6
27617	Stock continuous forms	1 684.2	1 713.3	1 600.2	1 565.4	1 303.3	1 270.4	622.2	204.9
27610	Manifold business forms, n.s.k.	697.2	268.5	290.2	298.7	425.4	384.0	169.7	57.7
2771-	Greeting cards	2 034.6	1 949.4	1 809.1	1 679.0	1 595.8	1 395.2	765.2	583.5
27711	Greeting cards, publishers' sales	1 822.2	1 761.4	1 606.3	1 479.1	1 441.7	1 254.8	694.3	510.8
27712	Greeting cards, printed for publication by others	78.9	92.4	105.3	100.8	98.0	88.0	39.6	48.8
27710	Greeting cards, n.s.k.	133.5	95.6	97.4	99.2	56.1	52.4	31.3	23.9
2782-	Blankbooks and looseleaf binders	2 670.2	2 461.6	2 295.7	2 185.3	2 203.5	1 874.6	1 039.5	571.3
27823	Checkbooks	1 165.6	1 152.7	1 060.7	958.0	927.7	776.6	605.7	320.1
27824	Blankbook making, except checkbooks	327.0	287.1	261.8	251.7	348.0	279.5		
27825	Looseleaf binders and devices	905.6	878.9	832.8	839.5	736.4	652.8	346.3	209.9
27820	Blankbooks and looseleaf binders, n.s.k.	272.0	142.8	140.3	136.1	191.3	165.7	87.5	41.3
2789-	Bookbinding and related work	1 149.5	976.4	849.3	817.2	865.4	765.9	508.0	369.2
27891	Edition, library, and other hardcover bookbinding	221.2	234.0	232.9	211.5	202.2	183.0	172.3	147.6
27892	Other book, pamphlet binding, and related work	648.2	564.1	450.1	455.0	510.2	435.8	253.3	164.8
27890	Bookbinding and related work, n.s.k.	280.1	178.3	166.2	150.8	153.1	147.1	82.4	56.9
2791-	Typesetting	2 034.7	1 600.7	1 521.7	1 508.5	1 390.6	1 330.9	781.5	508.7
27910	Typesetting	2 034.7	1 600.7	1 521.7	1 508.5	1 390.6	1 330.9	781.5	508.7
2796-	Platemaking services	2 490.9	(NA)	(NA)	(NA)	(NA)	1 548.5	(NA)	(NA)
27961	Lithographic plates	208.1	(S)	(S)	(S)	(S)	189.5	183.6	112.3
27962	Lithographic platemaking services	1 430.9	1 148.9	1 045.1	946.9	849.5	748.3	403.3	131.6
27963	Platemaking services, except lithographic	542.4	566.0	548.6	560.2	468.8	444.1	(NA)	(NA)
27960	Platemaking services, n.s.k.	309.5	335.8	339.6	306.3	302.1	166.6	(NA)	(NA)
2812-	Alkalies and chlorine	2 033.5	1 978.1	2 163.8	2 253.0	2 224.5	2 346.1	1 786.7	805.7
28121	Chlorine, compressed or liquefied	786.9	740.2	765.0	753.7	588.3	440.8	520.0	210.2
28123	Sodium hydroxide (caustic soda)	970.2	953.4	1 069.8	1 136.5	1 307.7	1 584.2	997.0	410.9
28125	Other alkalies	258.6	222.5	267.7	303.8	304.3	294.0	263.0	181.3
28120	Alkalies and chlorine, n.s.k.	17.8	61.9	61.3	58.9	24.2	27.1	6.7	3.3
2813-	Industrial gases	2 631.0	2 444.2	2 462.3	2 389.9	2 072.0	2 002.2	1 199.1	659.1
28132	Acetylene	118.4	121.0	137.1	136.1	128.9	127.9	96.0	96.0
28133	Carbon dioxide	292.3	246.7	230.3	233.5	219.9	207.5	103.0	45.7
28135	Nitrogen	746.6	749.9	708.8	722.2	628.4	632.0	278.7	487.2
28136	Oxygen	617.3	550.7	564.8	623.2	627.4	578.3	375.1	
28137	Other industrial gases, n.e.c.	704.3	577.2	589.8	554.9	400.8	376.5	268.0	
28130	Industrial gases, n.s.k.	152.1	198.8	231.5	120.0	66.6	71.9	46.4	

See footnotes at end of table.

Table 1. Historical Statistics for Product Classes—Value Shipped by All Producers: 1987 and Earlier Years—Con.

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1987 product code	Product class	1987	1986 ¹	1985 ¹	1984 ¹	1983 ¹	1982	1977	1972
2816-	Inorganic pigments	2 425.5	2 195.2	2 112.5	1 933.3	1 691.1	1 590.7	1 339.2	756.2
28161	Titanium pigments.....	271 482.2	1 285.6	1 153.0	997.8	946.4	845.8	627.1	355.6
28162	Other white opaque pigments.....	27277.1	192.2	201.6	217.5	192.1	189.3	204.8	99.9
28163	Chrome colors and other inorganic pigments.....	614.2	676.4	698.4	680.9	524.9	529.3	485.0	283.2
28160	Inorganic pigments, n.s.k.....	52.0	41.0	59.6	37.0	27.7	26.3	22.3	17.5
2819-	Industrial inorganic chemicals, n.e.c.	10 266.1	9 932.3	10 244.5	10 489.8	9 819.8	9 698.2	6 920.3	3 008.8
28193	Sulfuric acid.....	557.4	553.2	587.7	587.4	584.8	586.0	427.1	245.4
28194	Inorganic acids, except nitric, sulfuric, and phosphoric.....	466.5	440.6	539.3	539.6	458.4	478.6	364.4	160.4
28195	Aluminum oxide.....	616.6	531.2	668.0	789.2	717.7	844.2	627.3	388.6
28196	Other aluminum compounds.....	411.4	387.5	405.6	440.9	408.4	376.8	312.3	175.5
28197	Potassium and sodium compounds, n.e.c.....	1 407.5	1 423.6	1 485.0	1 621.3	1 582.7	1 462.8	1 102.8	503.1
28198	Chemical catalytic preparations.....	1 061.2	1 075.6	974.3	1 019.9	849.3	676.5	398.4	172.8
28199	Other inorganic chemicals, n.e.c.....	5 235.0	5 183.2	5 224.8	4 988.0	4 721.5	4 790.7	3 375.3	1 334.6
28190	Industrial inorganic chemicals, n.e.c., n.s.k.....	510.5	337.3	364.9	503.6	470.1	482.6	112.8	28.4
2821-	Plastics materials and resins	27 812.3	22 905.0	21 573.9	22 729.9	21 053.4	17 614.8	12 181.1	4 486.4
28213	Thermoplastics resins and plastics materials.....	22 299.1	18 809.6	17 673.8	18 628.9	17 133.4	14 251.6	9 897.7	3 576.8
28214	Thermosetting resins and plastics materials.....	4 910.9	3 729.5	3 443.5	3 403.6	2 877.9	2 226.7	2 226.7	904.9
28210	Plastics materials and resins, n.s.k.....	602.2	365.9	456.6	552.0	516.4	485.3	56.7	4.7
2822-	Synthetic rubber	3 467.0	3 150.8	3 449.2	3 687.6	3 275.7	3 212.2	2 354.1	1 288.6
28220	Synthetic rubber.....	3 467.0	3 150.8	3 449.2	3 687.6	3 275.7	3 212.2	2 354.1	1 288.6
2823-	Cellulosic manmade fibers	1 220.0	1 141.2	991.5	1 103.7	1 207.3	1 114.8	851.1	684.6
28230	Rayon and acetate fibers.....	1 220.0	1 141.2	991.5	1 103.7	1 207.3	1 114.8	851.1	684.6
2824-	Manmade organic fibers, noncellulosic	8 875.7	8 330.1	7 978.6	8 571.0	8 288.0	7 149.8	5 471.5	2 949.1
28241	Nylon and other polyamide fibers ²⁸	3 445.6	2 424.8	2 230.8	2 662.8	2 510.6	1 891.1	1 962.9	1 251.8
28244	Polyester.....	2 855.9	2 865.1	2 905.1	3 147.3	3 111.6	2 679.1	1 938.6	(NA)
28247	Other noncellulosic manmade fibers (except glass, carbon, and graphite).....	1 461.5	1 262.8	1 187.6	1 148.8	1 097.5	1 041.4	674.0	(NA)
28248	Producer textured noncellulosic manmade fibers (see also code 2825) ²⁸	1 084.8	1 753.2	1 626.8	1 581.3	1 543.6	1 519.7	890.6	(NA)
28240	Manmade organic fibers, noncellulosic, n.s.k.....	27.9	24.2	28.2	30.9	24.8	18.6	5.4	3.3
2833-	Medicinals and botanicals	4 224.4	3 997.2	3 347.3	3 397.5	3 505.0	3 732.7	2 205.9	793.5
28331	Synthetic organic medicinal chemicals, in bulk.....	3 648.0	2 842.5	2 753.3	2 746.9	2 850.8	3 101.4	1 787.8	635.6
28333	Other medicinal chemicals and botanical products, in bulk, n.e.c.....	370.5	365.0	380.3	426.0	429.7	405.0	313.7	144.2
28330	Medicinals and botanicals, n.s.k.....	205.9	189.7	213.6	224.6	224.4	226.3	104.7	14.0
2834-	Pharmaceutical preparations	26 610.3	24 280.2	22 317.5	20 691.7	18 980.3	16 690.5	9 639.5	6 295.4
28341	Pharmaceutical preparations affecting neoplasms, the endocrine system, and metabolic diseases, for human use.....	1 946.1	2 081.3	1 921.4	1 876.0	1 904.9	1 635.1	905.3	615.4
28342	Pharmaceutical preparations acting on the central nervous system and the sense organs, for human use.....	5 654.4	5 235.3	4 956.7	5 039.6	4 307.4	3 758.8	2 254.4	1 638.1
28343	Pharmaceutical preparations acting on the cardiovascular system, for human use.....	3 712.9	3 502.0	3 119.0	2 753.1	2 183.1	1 836.6	748.4	383.1
28344	Pharmaceutical preparations acting on the respiratory system, for human use.....	2 738.0	2 319.1	2 181.0	1 823.0	1 823.7	1 588.1	871.4	579.9
28345	Pharmaceutical preparations acting on the digestive or the genito-urinary systems, for human use.....	2 874.6	2 217.3	2 094.9	1 613.4	1 482.3	1 345.5	1 080.3	764.0
28346	Pharmaceutical preparations acting on the skin, for human use.....	1 251.9	1 196.6	1 088.0	1 067.1	983.2	824.5	613.1	348.5
28347	Vitamin, nutrient, and hematinic preparations, for human use.....	2 566.0	2 721.8	2 392.5	2 321.0	2 401.3	2 103.5	1 315.4	690.5
28348	Pharmaceutical preparations affecting parasitic and infective diseases, for human use.....	4 034.1	3 742.0	3 296.8	3 022.3	2 692.7	2 438.6	1 292.6	949.0
28349	Pharmaceutical preparations, for veterinary use.....	994.6	799.8	850.9	826.5	770.5	778.6	353.3	240.3
28340	Pharmaceutical preparations, n.s.k.....	837.7	465.2	416.4	349.7	431.2	381.0	205.3	86.6
2835-	Diagnostic substances²⁹	2 683.4	2 022.2	1 693.2	1 553.5	1 376.3	1 321.8	(NA)	(NA)
28351	Diagnostic substances, in vitro.....	1 900.5							
28352	Diagnostic substances, in vivo.....	679.6	2 022.2	1 693.2	1 553.5	1 376.3	1 321.8	(NA)	(NA)
28350	Diagnostic substances, n.s.k.....	103.4							
2836-	Biological products, except diagnostic	1 765.2	1 419.0	1 328.3	1 234.3	1 155.5	1 094.7	(NA)	(NA)
28361	Blood and blood derivatives, for human use.....	578.0	447.3	447.8	376.7	362.0	361.0	243.1	125.9
28362	Vaccines, toxoids, and antigens, for human use.....	433.6	365.1	280.7	219.3	198.4	188.0	99.4	70.5
28363	Other biologics for human use.....	172.8	135.2	139.0	133.3	144.7	126.2	(NA)	(NA)
28364	Biological products for veterinary, industrial, and other uses.....	379.8	296.2	252.7	219.6	248.3	206.0	46.6	(NA)
28360	Biological products, except diagnostic, n.s.k.....	201.0	175.2	208.1	285.4	202.1	213.5	87.8	13.8
2841-	Soap and other detergents	9 527.1	8 896.1	8 511.9	8 265.2	7 889.7	7 852.3	4 999.6	2 851.8
28411	Soap and detergents, nonhousehold.....	1 790.9	1 696.9	1 581.7	1 582.9	1 517.8	1 538.5	1 005.8	652.5
28412	Household detergents.....	5 247.5	4 924.1	4 741.4	4 680.4	4 462.3	4 349.3	2 817.2	1 633.9
28413	Soaps, except specialty cleaners, household.....	1 423.3	1 515.0	1 368.3	1 204.4	1 214.1	1 220.4	707.0	412.0
28414	Glycerin, natural.....	172.4	179.4	243.1	179.2	134.5	153.7	101.0	50.4
28410	Soap and other detergents, n.s.k.....	893.0	582.7	577.4	618.3	590.3	590.3	368.6	103.0
2842-	Polishes and sanitation goods	5 112.5	4 596.4	4 115.1	4 095.8	4 248.0	4 047.1	2 668.5	1 724.2
28422	Household bleaches ³⁰	812.4	556.4	489.7	531.9	542.2	528.4	353.8	235.5
28423	Specialty cleaning and sanitation products.....	2 719.2	2 684.2	2 424.4	2 322.9	2 464.8	2 327.8	1 478.2	887.3
28424	Polishing preparations and related products.....	798.0	873.7	744.7	720.5	690.1	648.0	505.7	391.8
28420	Polishes and sanitation goods, n.s.k.....	782.9	482.1	456.4	520.4	550.9	542.9	330.8	209.6
2843-	Surface active agents	2 884.5	2 707.1	2 485.2	2 579.6	2 548.1	2 495.7	1 341.0	580.7
28430	Surface active agents.....	2 884.5	2 707.1	2 485.2	2 579.6	2 548.1	2 495.7	1 341.0	580.7
2844-	Toilet preparations	14 871.3	13 746.7	13 425.3	12 155.2	11 247.8	10 437.1	6 393.5	4 247.1
28441	Shaving preparations.....	480.7	456.4	423.8	415.4	351.3	328.7	268.2	250.7
28442	Perfumes, toilet water, and colognes.....	1 995.3	2 026.8	1 797.8	1 738.4	1 732.3	1 634.1	1 096.8	677.0
28443	Hair preparations (including shampoos).....	3 602.1	3 236.9	3 231.3	2 817.1	2 558.7	2 430.0	1 474.9	1 065.1
28444	Dentifrices, including mouthwashes, gargles, and rinses.....	1 401.5	1 267.7	1 464.6	1 174.6	1 227.4	1 178.9	659.6	484.6
28445	Other cosmetics and toilet preparations.....	6 492.2	6 028.3	5 879.2	5 305.7	4 760.3	4 266.5	2 597.4	1 673.6
28440	Toilet preparations, n.s.k.....	899.5	730.7	628.7	704.1	617.9	598.9	296.6	96.0
2851-	Paints and allied products	12 078.3	11 230.3	10 931.6	10 043.9	9 528.4	8 506.5	6 123.0	3 520.2
28511	Architectural coatings.....	4 172.7	4 090.0	3 829.6	3 597.6	3 307.0	3 076.3	2 234.0	1 306.6
28512	Product finishes for original equipment manufacturers.....	3 772.4	3 487.3	3 463.5	3 262.2	2 822.3	2 491.8	1 957.2	1 052.7
28513	Special purpose coatings.....	2 148.2	1 903.3	1 918.1	1 660.5	1 729.1	1 380.7	727.8	340.2
28515	Miscellaneous allied paint products.....	994.4	1 010.4	1 044.5	894.1	822.9	801.6	672.9	488.6
28510	Paints and allied products, n.s.k.....	990.5	739.3	675.9	629.4	847.0	756.2	531.1	332.1
2861-	Gum and wood chemicals	551.6	599.0	625.0	581.1	573.1	658.5	436.1	300.8
28611	Softwood distillation products.....	94.9	83.5	84.9	84.9	98.3	167.1	123.0	94.1
28612	Other gum and wood chemicals.....	425.5	499.7	519.5	482.9	464.3	481.6	289.0	197.0
28610	Gum and wood chemicals, n.s.k.....	31.3	15.8	20.5	13.3	10.6	9.8	24.1	9.7

See footnotes at end of table.

Table 1. Historical Statistics for Product Classes—Value Shipped by All Producers: 1987 and Earlier Years—Con.

[Million dollars. Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 product code	Product class	1987	1986 ¹	1985 ¹	1984 ¹	1983 ¹	1982	1977	1972
2865-	Cyclic crudes and intermediates	11 138.7	9 230.4	9 706.7	10 546.8	10 043.1	9 039.7	(NA)	(NA)
28651	Cyclic intermediates	7 771.6	6 704.3	7 075.8	7 417.4	6 939.3	5 943.0	4 130.4	1 538.0
28652	Synthetic organic dyes	858.7	768.6	717.9	744.3	715.4	700.2	722.1	473.6
28653	Synthetic organic pigments, lakes, and toners	814.5	718.7	664.6	683.5	650.5	535.3	414.5	224.7
28655	Tar, tar crudes, and tar pitches	389.5	367.1	389.5	485.1	445.7	452.8	204.9	80.9
28656	Aromatics, not made in a refinery (see also code 2911D)	1 124.0	594.2	785.8	1 139.3	1 244.7	1 353.7	(NA)	(NA)
28650	Cyclic crudes and intermediates, n.s.k.	180.4	77.5	73.0	77.2	47.5	54.7	42.4	20.3
2869-	Industrial organic chemicals, n.e.c.	35 451.7	30 788.8	31 164.3	33 808.9	32 285.7	30 655.9	(NA)	(NA)
28691	Liquefied refinery gases not made in a refinery (see also code 2911A)	4 925.4	3 651.1	3 489.6	4 453.3	3 974.2	3 941.4	(NA)	(NA)
28693	Synthetic organic chemicals, n.e.c.	2 529.6	2 297.5	2 420.8	2 266.4	2 301.6	1 873.1	1 600.5	723.0
28694	Pesticides and other synthetic organic agricultural chemicals	1 551.8	1 563.2	1 562.0	1 587.9	1 580.7	1 785.8	1 474.0	489.3
28695	Ethyl alcohol and other industrial organic chemicals, n.e.c.	2 404.0	1 479.9	1 420.8	1 436.1	1 437.2	1 137.4	645.9	280.3
28696	Miscellaneous end-use chemicals and chemical products	3 478.9	3 439.3	3 381.9	3 781.0	3 054.6	3 135.0	2 070.5	5 900.2
28697	Miscellaneous cyclic and acyclic chemicals and chemical products	19 290.0	17 971.3	18 399.7	19 899.4	19 512.8	18 499.9	13 424.7	
28690	Industrial organic chemicals, n.e.c., n.s.k.	1 271.9	386.5	489.5	384.8	414.6	283.3	162.1	117.3
2873-	Nitrogenous fertilizers	2 759.1	2 441.7	3 680.6	3 953.5	3 235.5	3 398.6	2 811.5	937.3
28731	Synthetic ammonia, nitric acid, and ammonium compounds	2 086.7	1 967.8	3 014.4	3 168.9	2 590.1	2 745.6	2 300.8	766.2
28732	Urea	467.7	394.1	557.4	676.3	546.2	540.7	447.6	160.4
28733	Fertilizer materials of organic origin	74.3	20.9	36.0	42.3	20.4	30.0	29.5	(S)
28730	Nitrogenous fertilizers, n.s.k.	130.4	58.8	72.8	65.9	78.8	82.3	33.6	(D)
2874-	Phosphatic fertilizers	3 609.0	3 276.4	4 050.9	4 340.3	3 923.9	3 742.0	2 552.6	1 052.5
28741	Phosphoric acid	1 164.9	1 124.2	1 172.1	1 095.4	977.3	1 028.9	510.2	177.5
28742	Superphosphate and other phosphatic fertilizer materials	2 153.8	1 876.0	2 462.2	2 702.4	2 357.7	1 997.6	1 609.1	420.7
28744	Mixed fertilizers (see also code 28750)	256.6	253.7	391.2	522.8	565.5	708.6	429.3	443.0
28740	Phosphatic fertilizers, n.s.k.	33.7	22.4	25.3	19.6	23.5	6.8	3.9	11.3
2875-	Fertilizers, mixing only	1 370.6	1 596.2	1 642.6	1 650.5	1 602.8	1 528.9	1 480.9	651.9
28750	Mixed fertilizers (see also code 28744)	1 370.6	1 596.2	1 642.6	1 650.5	1 602.8	1 528.9	1 480.9	651.9
2879-	Agricultural chemicals, n.e.c.	5 579.6	5 059.9	5 124.9	5 613.4	4 690.0	4 794.0	2 704.0	1 196.2
28795	Insecticidal preparations primarily for agricultural, garden, and health service	1 169.6	957.3	932.5	1 043.7	758.1	966.2	828.2	387.6
28796	Herbicidal preparations primarily for agricultural, garden, and health service use	2 713.5	2 767.6	2 892.7	3 248.2	2 614.3	2 641.7	1 177.1	432.0
28797	Fungicidal preparations primarily for agricultural, garden, and health service use	459.2	370.6	366.9	367.6	357.7	348.6	196.9	
28798	Other pesticidal preparations and agricultural chemicals, n.e.c., primarily for agricultural, garden, and health service use	283.0	224.4	210.9	207.6	224.1	192.8	119.9	85.6
28799	Household pesticidal preparations, including industrial exterminants	635.5	517.1	515.2	516.6	544.5	468.2	227.8	184.2
28790	Agricultural chemicals, n.e.c., n.s.k.	318.7	223.0	206.7	229.7	191.4	176.4	154.1	106.8
2891-	Adhesives and sealants	4 550.4	3 713.3	3 531.3	3 459.6	3 176.9	2 903.0	1 873.1	954.3
28913	Natural base glues and adhesives	154.2	203.7	180.1	224.1	176.0	177.5	166.4	119.5
28914	Synthetic resin and rubber adhesives	2 825.8	2 338.8	2 243.4	2 222.5	1 960.5	1 833.8	1 221.8	671.8
28916	Structural sealants (load bearing)	226.6	732.3	747.9	650.8	646.1	602.8	364.4	121.2
28917	Nonstructural caulking compounds and sealants	637.2							
28910	Adhesives and sealants, n.s.k.	706.5	438.5	359.9	362.2	394.2	288.9	120.5	41.7
2892-	Explosives	742.8	626.1	682.0	703.2	588.9	587.6	435.5	237.6
28920	Explosives, propellants, and blasting accessories	742.8	626.1	682.0	703.2	588.9	587.6	435.5	237.6
2893-	Printing ink	2 359.1	2 029.1	1 807.8	1 813.3	1 604.5	1 518.7	904.0	498.0
28931	Letterpress inks	164.1	118.6	125.0	139.6	110.1	128.0	105.9	109.8
28932	Lithographic and offset inks	987.3	854.3	741.8	691.8	619.2	536.4	303.2	151.8
28933	Gravure inks	414.5	373.9	334.4	356.8	337.2	325.8	190.7	82.5
28934	Flexographic inks	424.8	332.0	316.2	300.6	262.3	241.7	157.1	73.4
28935	Printing inks, n.e.c.	140.4	185.2	140.4	156.8	147.7	143.8	60.6	35.2
28930	Printing inks, n.s.k.	228.1	165.2	150.0	167.8	128.1	143.1	86.5	45.4
2895-	Carbon black	569.6	575.1	723.4	812.2	674.9	652.7	466.2	227.1
28950	Carbon black (channel and furnace process only)	569.6	575.1	723.4	812.2	674.9	652.7	466.2	227.1
2899-	Chemical preparations, n.e.c.	7 447.5	7 007.1	7 226.6	6 919.1	6 099.9	6 101.0	4 243.8	2 228.3
28991	Evaporated salt	413.5	417.8	424.0	408.4	390.8	419.8	246.2	133.9
28992	Fatty acids (produced for sale as such)	426.5	368.7	511.1	471.1	346.7	350.8	353.2	155.3
28994	Gelatin, except ready-to-eat desserts	224.4	234.4	250.0	226.1	228.6	242.3	175.3	68.2
28995	Chemical preparations, n.e.c.	5 004.0	4 958.9	5 050.3	4 826.8	4 486.3	4 437.4	3 109.0	1 641.0
28990	Chemical preparations, n.e.c., n.s.k.	1 379.1	1 027.2	991.2	986.6	647.5	650.7	360.1	228.9
2911-	Petroleum refining	114 278.3	102 949.0	157 946.2	166 246.6	169 967.0	185 978.1	(NA)	(NA)
29111	Gasoline	58 669.3	51 538.8	79 130.5	80 810.0	86 425.6	95 114.7	41 840.4	13 029.6
29112	Jet fuel	10 506.0	9 670.5	14 132.3	14 270.1	13 755.2	14 862.4	5 358.9	1 371.6
29113	Kerosene	521.9	857.4	1 054.3	1 311.0	1 216.4	1 886.6	892.9	372.4
29114	Light fuel oils	21 171.5	19 433.2	30 831.7	33 431.1	32 355.4	37 302.6	17 509.4	4 407.4
29115	Heavy fuel oils	5 465.3	4 821.7	9 088.7	10 143.7	10 178.9	11 390.6	6 793.9	1 107.2
29117	Lubricating oils and greases, made in a refinery (see also code 29920)	1 457.7	1 974.3	2 762.5	3 245.6	3 115.3	2 891.4	1 718.9	894.8
29118	Unfinished oils and lubricating oil base stock	4 177.1	4 229.7	6 254.9	7 893.6	8 241.5	8 065.9	2 887.8	733.7
29119	Asphalt	2 521.2	2 264.8	3 543.0	3 699.5	3 266.2	2 980.3	2 216.7	671.5
2911A	Liquefied refinery gases made in a refinery (see also code 28691)	4 064.4	3 255.4	4 716.8	4 589.6	4 051.9	4 454.7	(NA)	(NA)
2911D	Other finished petroleum products, including waxes	4 045.6	4 308.7	5 276.8	5 213.2	5 800.6	5 507.8	(NA)	(NA)
29110	Petroleum products, n.s.k.	1 678.3	594.4	1 154.7	1 639.2	1 560.0	1 521.2	(NA)	(NA)
2951-	Asphalt paving mixtures and blocks	4 087.0	3 778.0	3 809.2	3 344.2	3 014.6	2 881.0	1 518.6	893.4
29510	Paving mixtures and blocks	4 087.0	3 778.0	3 809.2	3 344.2	3 014.6	2 881.0	1 518.6	893.4
2952-	Asphalt felts and coatings	3 175.7	3 260.7	3 288.8	3 087.6	3 028.1	2 633.2	1 828.6	902.2
29521	Asphalt and tar saturated felts and boards for nonbuilding use	31.7	47.6	35.5	39.5	75.2	64.4	99.5	34.2
29522	Roofing asphalts and pitches, coatings, and cements	451.0	646.9	714.4	529.0	437.1	466.8	263.4	155.3
29523	Prepared asphalt and tar roofing and siding products	2 383.4	2 404.6	2 356.2	2 358.6	2 402.2	2 030.8	1 405.3	690.6
29520	Asphalt felts and coatings, n.s.k.	309.6	161.7	182.7	160.5	113.7	71.2	60.5	22.1
2992-	Lubricating oils and greases	3 622.2	3 184.7	3 196.7	3 157.8	2 668.1	2 718.3	1 514.0	642.0
29920	Lubricating oils and greases, not made in a refinery (see also code 29117)	3 622.2	3 184.7	3 196.7	3 157.8	2 668.1	2 718.3	1 514.0	642.0
2999-	Petroleum and coal products, n.e.c.	647.9	(NA)	(NA)	(NA)	(NA)	801.8	(NA)	(NA)
29990	Petroleum and coal products, n.e.c.	647.9	(NA)	(NA)	(NA)	(NA)	801.8	(NA)	(NA)
3011-	Tires and inner tubes	10 032.7	9 520.0	10 069.1	10 281.2	9 892.6	9 047.3	8 127.6	4 898.4
30111	Passenger car pneumatic tires (casings)	5 821.2	5 323.3	5 504.9	5 590.5	5 466.1	5 088.4	4 571.1	2 860.0
30112	Truck and bus, pneumatic tires	2 727.3	3 038.3	3 257.2	3 257.2	2 914.0	2 592.7	2 276.6	1 282.1
30117	Tractor and implement pneumatic tires	347.5	196.6	227.6	265.0	397.7	243.1	(NA)	(NA)
30118	Industrial and utility pneumatic tires	165.5	197.8	208.2	248.7	195.5	186.3	(NA)	(NA)
30119	Other pneumatic tires	158.5	153.3	152.8	124.6	112.4	123.3	(NA)	(NA)

See footnotes at end of table.

Table 1. Historical Statistics for Product Classes—Value Shipped by All Producers: 1987 and Earlier Years—Con.

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1987 product code	Product class	1987	1986 ¹	1985 ¹	1984 ¹	1983 ¹	1982	1977	1972
3011-	Tires and inner tubes—Con.								
3011A	Solid and semipneumatic tires	117.9	109.7	85.2	101.1	105.0	127.6	(NA)	(NA)
3011B	Truck and bus inner tubes	78.5	87.4	96.5	101.9	90.7	90.5	(NA)	(NA)
3011C	All other inner tubes	61.4	62.4	81.5	86.6	75.6	94.6	1 259.7	744.8
3011D	Tread rubber, tire sundries, and repair materials	483.8	315.6	412.2	463.7	514.5	501.4	(NA)	(NA)
30110	Tires and inner tubes, n.s.k.	71.1	35.5	42.9	42.0	20.9	19.3	20.2	11.5
3021-	Rubber and plastics footwear	519.6	486.5	547.4	560.6	625.3	662.6	404.8	493.9
3021A	Protective footwear	114.0	122.3	155.2	152.7	136.9	121.8	(NA)	(NA)
30215	Shoes with soles vulcanized, molded, or cemented to fabrics upper	387.5	353.7	382.1	397.7	484.1	536.1	(NA)	(NA)
30210	Rubber and plastics footwear, n.s.k.	18.1	10.6	10.1	10.2	4.3	4.7	404.8	493.9
3052-	Rubber and plastics hose and belting	2 213.6	2 170.2	2 161.8	2 189.9	1 793.9	1 699.3	1 541.4	886.0
30521	Rubber and plastics belts and belting, flat	267.4	367.9	357.7	349.2	268.4	291.2	260.9	157.6
30522	Rubber and plastics transmission belts and belting, other than flat	480.5	444.9	461.3	526.0	436.5	391.7	348.4	204.0
30523	Rubber hose, mandrel made and all hydraulic	432.1	365.5	351.3	367.8	301.7	310.3	253.4	143.5
30524	Rubber hose, long length nonhydraulic, except garden	254.2	216.6	217.2	224.3	221.4	169.4	164.9	84.8
30525	Rubber and plastics garden hose	195.7	169.1	164.7	159.7	107.1	110.4	113.3	56.3
30526	All other rubber and plastics hose, n.s.c.	525.2	587.9	590.2	544.1	444.1	410.4	387.4	237.0
30520	Rubber and plastics hose and belting, n.s.k.	58.5	18.4	19.4	18.3	14.7	15.9	13.1	2.8
3053-	Gaskets, packing, and sealing devices	2 309.4	1 958.5	2 097.0	1 960.0	1 710.8	1 663.7	1 254.8	714.7
30534	Compression packings	79.5	73.9	72.9	66.5	67.3	99.8	42.0	(NA)
30535	Nonmetallic gaskets and gasketing	636.7	617.7	630.5	595.2	539.0	469.4	380.4	(NA)
30536	Molded packings and seals	573.4	517.5	689.3	575.4	410.0	403.5	375.8	(NA)
30537	Metallic gaskets and machined seals	296.0	296.4	281.7	274.5	210.0	225.5	120.7	(NA)
30538	Axial mechanical face seals	169.7	94.8	73.0	78.3	99.6	89.8	100.0	(NA)
30539	Rotary oil seals	325.3	249.1	241.7	258.1	296.5	275.8	177.3	(NA)
30530	Gaskets, packing, and sealing devices, n.s.k.	228.6	109.1	107.8	112.0	88.4	100.0	58.7	46.7
3061-	Molded, extruded and lathe cut rubber mechanical goods	3 553.9	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
30611	Molded rubber mechanical goods, automotive	1 254.5	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
30612	Molded rubber mechanical goods, transportation, except automotive	394.0	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
30613	Other molded rubber mechanical goods	826.1	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
30614	Extruded rubber mechanical goods, automotive (except tubing)	370.3	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
30615	Other extruded rubber mechanical goods, except automotive	353.4	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
30616	Lathe-cut rubber mechanical goods, automotive	44.7	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
30617	Other lathe-cut rubber mechanical goods, except automotive	53.2	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
30610	Molded, extruded and lathe-cut mechanical rubber goods, n.s.k.	257.8	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3069-	Fabricated rubber products, n.e.c.	5 235.1	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
30693	Sponge, expanded and foam rubber products	737.0	633.7	663.3	614.5	521.3	449.8	584.3	350.1
30694	Rubber floor and wall coverings	365.2	482.2	415.8	380.9	311.5	236.4	170.6	98.4
30695	Prophylactics	103.3	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
30696	Shoe products, rubber, elastomer resin	138.3	157.3	190.0	224.7	249.8	265.0	225.1	154.5
30698	Rubber druggist and medical sundries	499.0	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
30699	Compounds or mixtures for sale or interplant transfer	969.2	771.8	867.6	832.3	682.5	594.1	246.1	(NA)
3069C	Industrial rubber products, n.e.c.	950.6	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3069D	Rubber-coated fabrics and rubber clothing	333.7	301.5	337.0	340.9	359.3	362.0	178.6	(NA)
3069E	Other rubber goods	497.8	761.8	716.5	739.3	695.6	641.4	517.4	52.0
30690	Fabricated rubber products, n.e.c., n.s.k.	641.0	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3081-	Unsupported plastics film and sheet	8 766.7	8 784.5	8 581.1	8 132.2	6 883.0	6 026.8	(NA)	(NA)
30810	Plastics film and sheet, unsupported	8 766.7	8 784.5	8 581.1	8 132.2	6 883.0	6 026.8	(NA)	(NA)
3082-	Unsupported plastics profile shapes	2 369.8	(NA)	(NA)	(NA)	(NA)	1 257.9	(NA)	(NA)
30820	Plastics unsupported rods, shapes, tubes, profiles, and other shapes	2 369.8	(NA)	(NA)	(NA)	(NA)	1 257.9	(NA)	(NA)
3083-	Laminated plastics plate, sheet, and profile shapes	2 093.9	(NA)	(NA)	(NA)	(NA)	1 854.2	(NA)	(NA)
30830	Plastics laminates	2 093.9	(NA)	(NA)	(NA)	(NA)	1 854.2	(NA)	(NA)
3084-	Plastics pipe	2 384.4	1 786.2	1 783.9	1 804.7	1 657.5	1 406.7	(NA)	(NA)
30840	Plastics piping	2 384.4	1 786.2	1 783.9	1 804.7	1 657.5	1 406.7	(NA)	(NA)
3085-	Plastics bottles	2 849.6	3 029.0	2 683.2	2 475.0	2 203.6	1 921.4	(NA)	(NA)
30850	Plastics bottles	2 849.6	3 029.0	2 683.2	2 475.0	2 203.6	1 921.4	(NA)	(NA)
3086-	Plastics foam products	7 026.3	5 784.7	5 473.9	5 441.3	5 045.4	4 357.9	(NA)	(NA)
30861	Transportation plastics foam products	1 043.1	(NA)	(NA)	(NA)	(NA)	826.3	(NA)	(NA)
30862	Packaging plastics foam products	1 097.1	(NA)	(NA)	(NA)	(NA)	889.9	(NA)	(NA)
30863	Building and construction plastics foam products	940.7	(NA)	(NA)	(NA)	(NA)	516.8	(NA)	(NA)
30864	Furniture and furnishings plastics foam products	1 763.7	(NA)	(NA)	(NA)	(NA)	902.5	(NA)	(NA)
30865	Consumer and institutional plastics foam products	1 310.4	(NA)	(NA)	(NA)	(NA)	838.2	(NA)	(NA)
30866	Other plastics foam products	399.4	(NA)	(NA)	(NA)	(NA)	384.2	(NA)	(NA)
30860	Plastics foam products, n.s.k.	471.8	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3087-	Custom compounding of purchased plastics resins	2 370.4	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
30870	Custom compounding of purchased resins and color concentrates	2 370.4	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3088-	Plastics plumbing fixtures	751.2	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
30880	Plastics plumbing fixtures	751.2	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3089-	Plastics products, n.e.c.	32 927.6	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
30891	Transportation fabricated plastics products	4 429.4	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
30892	Electrical and electronic fabricated plastics products	2 466.0	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
30893	Industrial machinery plastics products	748.1	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
30894	Plastics packaging	4 005.9	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
30895	Plastics dinnerware, tableware, kitchenware, and oven/microwave ware	1 075.2	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
30896	Consumer, institutional, and commercial fabricated plastics products, n.e.c.	5 204.3	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
30897	Plastics furniture components and furnishings	553.7	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
30898	Building and construction fabricated plastics products	2 223.1	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
30899	Plastics shoe products, including taps, soles, slabs, and quarterlinings	68.4	(NA)	(NA)	(NA)	(NA)	106.0	(NA)	(NA)
3089A	Reinforced and fiberglass plastics products, n.e.c.:	2 616.8	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
30890	Plastics products, n.e.c., n.s.k.	9 536.6	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3111-	Leather tanning and finishing	2 212.2	1 579.5	1 609.3	1 768.9	1 841.6	1 706.2	1 380.1	1 026.4
31116	Finished and unfinished leather	1 931.0	1 399.4	1 425.6	1 522.6	1 400.2	1 202.7	1 202.7	873.6
31119	Contract and commission receipts for tanning or finishing leather	159.5	121.2	115.2	175.4	220.6	231.9	109.4	87.0
31110	Leather tanning and finishing products, n.s.k.	121.7	58.9	68.5	71.0	100.2	74.2	68.0	65.8
3131-	Footwear cut stock	335.3	230.6	261.6	294.1	332.1	346.8	255.1	196.1
31310	Boot and shoe cut stock and findings	335.3	230.6	261.6	294.1	332.1	346.8	255.1	196.1
3142-	House slippers	205.3	199.8	215.1	225.2	241.3	265.3	190.2	159.4
31420	House slippers	205.3	199.8	215.1	225.2	241.3	265.3	190.2	159.4

See footnotes at end of table.

Table 1. Historical Statistics for Product Classes—Value Shipped by All Producers: 1987 and Earlier Years—Con.

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1987 product code	Product class	1987	1986 ¹	1985 ¹	1984 ¹	1983 ¹	1982	1977	1972
3143- 31430	Men's footwear, except athletic Men's footwear, except athletic	1 833.5 1 833.5	1 705.3 1 705.3	1 878.7 1 878.7	2 021.5 2 021.5	2 034.4 2 034.4	1 971.2 1 971.2	1 592.1 1 592.1	1 181.3 1 181.3
3144- 31440	Women's footwear, except athletic Women's footwear, except athletic	1 374.4 1 374.4	1 351.7 1 351.7	1 522.1 1 522.1	1 660.1 1 660.1	1 979.2 1 979.2	1 994.1 1 994.1	1 386.8 1 386.8	1 348.3 1 348.3
3149- 31490	Footwear, except rubber, n.e.c. Footwear, except rubber, n.e.c.	449.1 449.1	457.8 457.8	517.3 517.3	669.0 669.0	717.7 717.7	721.7 721.7	568.0 568.0	475.7 475.7
3151- 31510	Leather gloves and mittens Gloves and mittens, all leather	147.3 147.3	141.0 141.0	153.1 153.1	145.4 145.4	129.7 129.7	138.7 138.7	121.9 121.9	79.9 79.9
3161- 31610	Luggage Suitcases, briefcases, bags, and musical instrument cases	816.8 816.8	567.0 567.0	626.9 626.9	717.7 717.7	675.9 675.9	647.3 647.3	585.3 585.3	321.9 321.9
3171- 31710	Women's and children's handbags and purses Women's and children's handbags and purses	469.3 469.3	338.9 338.9	444.5 444.5	483.4 483.4	507.4 507.4	524.9 524.9	436.2 436.2	344.4 344.4
3172- 31720	Personal leather goods, n.e.c. Personal leather goods, n.e.c.	411.6 411.6	371.1 371.1	401.7 401.7	405.2 405.2	418.8 418.8	393.1 393.1	369.2 369.2	231.8 231.8
3199- 31990	Leather goods, n.e.c. Leather products, n.e.c.	379.0 379.0	302.2 302.2	328.6 328.6	309.5 309.5	304.5 304.5	305.1 305.1	237.4 237.4	146.1 146.1
3211- 32113 32114 32115 32110	Flat glass Laminated glass (see also code 32313) Other glass products Flat glass Glass and glass products, n.s.k.	3 509.0 311 390.2 632.5 1 469.9 16.4	3 103.7 311 145.0 702.1 1 245.4 11.2	2 761.3 311 043.1 597.0 1 108.4 12.8	2 472.6 3108.3 585.0 965.0 14.3	2 305.9 31807.8 488.5 1 000.2 9.4	(NA) (NA) 424.6 869.9 6.6	(NA) (NA) 360.6 742.8 7.0	(NA) (NA) 193.6 519.1 (NA)
3221- 32210	Glass containers Glass containers	4 720.7 4 720.7	4 589.9 4 589.9	4 567.4 4 567.4	4 436.9 4 436.9	4 794.1 4 794.1	5 143.8 5 143.8	3 618.0 3 618.0	2 085.2 2 085.2
3229- 32293 32295 32296 32297 32298 32290	Pressed and blown glass, n.e.c. Glass fiber, textile-type Machine-made table, kitchen, art, and novelty glassware Machine-made lighting and electronic glassware All other machine-made glassware Handmade pressed and blown glassware Pressed and blown glass, n.e.c., n.s.k.	3 547.6 1 226.0 598.7 637.1 477.1 102.9 505.9	3 194.0 1 135.9 (NA) (NA) (NA) (NA) 60.9	3 170.7 1 166.6 (NA) (NA) (NA) (NA) 63.3	3 313.8 1 247.1 (NA) (NA) (NA) (NA) 57.2	3 084.2 1 030.8 (NA) (NA) (NA) (NA) 40.7	2 677.0 768.2 (NA) (NA) (NA) (NA) 39.4	2 100.7 514.0 (NA) (NA) (NA) (NA) 50.0	1 262.4 253.5 (NA) (NA) (NA) (NA) 14.8
3231- 32311 32312 32313 32315 32318 32310	Glass products made of purchased glass Machine-made pressed and blown glassware, made of purchased glass Handmade pressed and blown glassware, made of purchased glass Laminated glass (see also code 32113) Mirrors (decorated or undecorated) Other glass products, made of purchased glass Products made of purchased glass, n.s.k.	4 502.9 710.0 77.3 (31) 775.2 2 377.9 562.5	3 597.5 (NA) (NA) (31) 708.9 1 602.2 289.4	3 382.8 (NA) (NA) (31) 693.5 1 468.3 213.6	3 284.4 (NA) (NA) (31) 645.2 1 475.6 188.3	2 834.8 (NA) (NA) (31) 545.2 1 347.2 171.6	2 544.6 (NA) (NA) (NA) 480.1 1 189.2 161.5	1 643.3 (NA) (NA) (NA) 409.4 758.1 177.6	977.1 (NA) (NA) (NA) 254.5 625.8 96.8
3241- 32410	Cement, hydraulic Cement, hydraulic (including cost of shipping containers)	4 116.1 4 116.1	4 057.7 4 057.7	4 124.1 4 124.1	4 022.8 4 022.8	3 598.5 3 598.5	3 474.4 3 474.4	2 971.0 2 971.0	1 770.0 1 770.0
3251- 32510	Brick and structural clay tile Brick and structural clay tile	1 151.3 1 151.3	1 381.0 1 381.0	1 217.5 1 217.5	1 045.7 1 045.7	798.4 798.4	624.4 624.4	715.3 715.3	471.3 471.3
3253- 32530	Ceramic wall and floor tile Clay floor and wall tile	624.6 624.6	628.3 628.3	541.7 541.7	497.0 497.0	423.1 423.1	366.6 366.6	222.4 222.4	157.9 157.9
3255- 32550	Clay refractories Clay refractories	744.5 744.5	694.4 694.4	672.3 672.3	722.5 722.5	694.9 694.9	628.7 628.7	540.1 540.1	302.2 302.2
3259- 32591 32592 32590	Structural clay products, n.e.c. Vitrified clay sewer pipe and fittings Other structural clay products, n.e.c. Structural clay products, n.e.c., n.s.k.	153.8 73.9 53.2 26.7	139.2 73.5 54.9 10.8	137.8 76.7 52.1 9.0	133.0 80.9 43.3 8.8	130.7 76.8 48.3 5.7	124.8 66.5 52.9 5.4	204.3 133.6 63.0 7.7	169.3 134.7 28.8 5.8
3261- 32610	Vitreous plumbing fixtures Vitreous and semivitreous plumbing fixtures, accessories, and fittings	714.1 714.1	688.2 688.2	613.6 613.6	570.6 570.6	499.1 499.1	419.8 419.8	367.8 367.8	248.3 248.3
3262- 32620	Vitreous china food utensils Vitreous china and porcelain table and kitchen articles (feldspar and bone)	252.9 252.9	242.1 242.1	232.3 232.3	217.1 217.1	201.6 201.6	204.8 204.8	140.9 140.9	82.0 82.0
3263- 32630	Earthenware (semivitreous) table and kitchen articles Earthenware table and kitchen articles	88.9 88.9	22.7 22.7	33.7 33.7	44.7 44.7	75.6 75.6	91.3 91.3	90.8 90.8	58.1 58.1
3264- 32640	Porcelain electrical supplies Porcelain, steatite, and other ceramic electrical and electronic products	759.1 759.1	477.4 477.4	578.2 578.2	612.5 612.5	516.6 516.6	505.8 505.8	378.9 378.9	259.0 259.0
3269- 32690	Pottery products, n.e.c. Pottery products, n.e.c.	494.4 494.4	378.1 378.1	397.3 397.3	461.9 461.9	421.7 421.7	450.3 450.3	240.8 240.8	146.9 146.9
3271- 32710	Concrete block and brick Concrete block and brick	1 950.7 1 950.7	1 784.7 1 784.7	1 552.2 1 552.2	1 456.6 1 456.6	1 344.4 1 344.4	1 173.2 1 173.2	1 005.1 1 005.1	795.7 795.7
3272- 32721 32722 32723 32720	Concrete products, n.e.c. Concrete pipe Precast concrete products Prestressed concrete products Concrete products, n.e.c., n.s.k.	5 511.7 1 389.4 2 241.7 1 048.1 832.6	4 759.4 1 264.4 2 065.1 1 004.7 425.2	4 272.9 1 241.2 1 690.1 999.9 341.6	4 060.1 1 143.4 1 584.3 916.0 416.3	3 621.1 909.9 1 357.7 776.4 496.0	3 503.3 543.8 1 349.6 741.9 492.8	2 596.1 843.8 772.6 423.6 556.1	1 864.7 565.3 536.8 414.1 348.5
3273- 32730	Ready-mixed concrete Ready-mixed concrete	11 794.9 11 794.9	9 624.5 9 624.5	9 139.5 9 139.5	8 740.8 8 740.8	8 050.6 8 050.6	7 544.9 7 544.9	5 679.9 5 679.9	3 578.8 3 578.8
3274- 32740	Lime Lime (including cost of shipping containers)	703.9 703.9	575.6 575.6	579.1 579.1	566.2 566.2	551.3 551.3	517.8 517.8	473.5 473.5	231.4 231.4
3275- 32751 32752 32750	Gypsum products Gypsum building materials Other gypsum products Gypsum products, n.s.k.	2 563.1 2 043.7 448.6 70.8	2 470.0 2 343.1 100.8 26.1	2 341.7 2 221.3 109.6 10.7	2 032.9 1 926.1 95.9 11.0	1 653.7 1 532.2 103.0 18.6	1 178.2 1 076.5 85.8 15.9	932.1 864.9 54.0 13.3	583.1 538.4 40.4 4.3
3281- 32811 32812 32813 32810	Cut stone and stone products Dressed dimension granite Dressed dimension limestone Dressed dimension marble and other stone Cut stone and stone products, n.s.k.	808.8 404.6 66.6 146.4 191.2	674.7 398.5 60.6 90.0 125.7	632.6 362.4 61.5 104.4 104.3	579.8 325.6 52.8 100.3 101.0	540.5 304.7 45.1 104.6 86.1	526.2 296.0 42.9 96.2 91.1	385.5 164.4 53.3 83.6 84.2	286.8 123.3 27.9 44.2 91.4

See footnotes at end of table.

Table 1. Historical Statistics for Product Classes—Value Shipped by All Producers: 1987 and Earlier Years—Con.

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1987 product code	Product class	1987	1986 ¹	1985 ¹	1984 ¹	1983 ¹	1982	1977	1972
3291-	Abrasive products	2 871.6	2 762.5	2 843.3	2 907.1	2 304.6	2 135.7	1 721.8	892.3
32915	Nonmetallic sized grains, powders, and flour abrasives	413.2	456.7	495.8	540.0	364.6	409.7	(NA)	(NA)
32916	Nonmetallic abrasive products	657.2	701.9	708.3	708.4	603.8	610.8	797.9	449.6
32917	Nonmetallic coated abrasive products and buffing wheels, polishing wheels, and laps	1 286.2	1 218.5	1 292.2	1 306.5	1 049.3	843.1	627.8	293.9
32918	Metal abrasives (including scouring pads)	204.2	200.7	202.5	209.9	185.6	173.9	176.8	107.4
32910	Abrasive products, n.s.k.	310.8	184.6	144.4	142.3	101.3	98.3	119.2	41.4
3292-	Asbestos products	385.4	457.6	587.2	627.1	724.2	841.0	960.1	742.6
32922	Asbestos friction materials	270.8	324.2	355.3	380.3	302.2	276.5	271.7	209.5
32927	Other asbestos products	74.2	(D)	204.6	218.0	404.6	544.2	661.2	(NA)
32920	Asbestos products, n.s.k.	40.5	(D)	27.2	28.7	17.4	20.3	27.0	5.3
3295-	Minerals and earths, ground or otherwise treated	1 344.8	1 184.6	1 114.6	1 190.7	1 374.5	1 252.9	911.0	391.5
32950	Minerals and earths, ground or otherwise treated	1 344.8	1 184.6	1 114.6	1 190.7	1 374.5	1 252.9	911.0	391.5
3296-	Mineral wool	3 137.6	3 170.0	3 035.6	2 907.9	2 452.7	2 215.2	1 684.0	738.7
32961	Mineral wool for thermal and acoustical envelope insulation	2 171.8	2 331.7	2 193.2	2 087.7	1 781.9	1 556.0	1 098.9	(NA)
32962	Mineral wool for industrial, equipment, and appliance insulation	786.8	793.6	789.2	778.5	637.5	625.7	568.9	(NA)
32960	Mineral wool, n.s.k.	179.0	44.7	53.2	41.7	33.4	33.4	16.0	8.2
3297-	Nonclay refractories	972.4	886.6	900.7	869.2	688.0	715.8	734.0	372.1
32970	Nonclay refractories, except dead-burned magnesia	972.4	886.6	900.7	869.2	688.0	715.8	734.0	372.1
3299-	Nonmetallic mineral products, n.e.c.	597.6	663.4	622.7	591.0	398.0	453.8	391.1	169.7
32990	Other nonmetallic mineral products, n.e.c.	597.6	663.4	622.7	591.0	398.0	453.8	391.1	169.7
3312-	Blast furnaces and steel mills	38 456.6	33 630.6	36 864.5	39 276.2	34 827.4	35 456.8	39 368.0	22 210.5
33121	Coke oven and blast furnace products, including ferroalloys	1 283.9	1 282.5	1 578.2	1 546.5	1 550.4	1 873.1	3 032.2	1 497.3
33122	Steel ingot and semifinished shapes	3 397.8	2 654.8	2 658.1	3 228.8	2 830.0	3 082.0	4 039.3	2 502.9
33123	Hot rolled sheet and strip, including tin mill products	16 087.3	13 986.8	14 279.4	14 852.4	13 663.1	11 913.5	11 057.8	6 740.1
33124	Hot rolled bars and bar shapes, plates, structural shapes, and piling	8 584.8	7 683.5	8 459.3	8 768.7	7 555.4	8 199.2	9 140.9	5 612.8
33125	Steel wire (produced in steel mills) (see also code 33155)	398.8	352.2	365.4	482.7	465.0	392.4	606.3	397.6
33126	Steel pipe and tubes (produced in steel mills) (see also code 33170)	1 640.7	1 027.0	1 912.6	2 141.7	1 624.5	3 561.5	3 000.4	1 501.0
33127	Cold rolled steel sheet and strip (produced in steel mills) (see also code 33167)	5 735.4	5 329.4	6 106.4	6 577.5	5 862.2	5 162.6	6 953.9	3 134.1
33128	Cold finished steel bars and bar shapes (produced in steel mills) (see also code 33168)	530.0	577.2	576.8	687.3	432.7	358.5	421.9	268.7
3312A	Seamless rolled ring forgings, ferrous (produced in steel mills) (see also code 34627)	(D)	(D)	(D)	(D)	(D)	(D)	93.6	(NA)
3312B	Open die or smith forgings (hammer or press), ferrous (see also code 34628)	(D)	(D)	(D)	(D)	(D)	(D)	288.9	(NA)
3312C	Other steel mill products, including steel rails, except wire products	277.5	401.5	569.8	558.6	385.6	395.6	561.1	(NA)
33120	Blast furnaces and steel mills, n.s.k.	313.3	76.6	76.4	129.6	148.6	108.5	171.7	(NA)
3313-	Electrometallurgical products	840.6	611.8	728.1	862.2	697.8	728.0	944.1	552.3
33131	Ferromanganese	(D)	(D)	(D)	(D)	(D)	(D)	159.1	(NA)
33132	Ferrosilicon	40.8	32.1	51.3	69.8	52.7	75.1	163.5	116.6
33133	Other ferroalloys produced in electric furnaces	317.2	252.9	277.3	351.8	266.2	243.0	327.4	180.8
33134	Electrometallurgical products, n.s.k.	(D)	(D)	(D)	(D)	(D)	(D)	290.2	(NA)
33130	Electrometallurgical products, n.s.k.	42.2	(S)	(S)	3.6	40.5	43.3	3.9	2.5
3315-	Steel wire and related products³²	3 483.6	'3 098.8	'2 970.7	'3 198.1	'3 054.4	'2 967.7	'2 697.5	'1 512.6
33151	Noninsulated ferrous wire rope, cable, and strand, made in wire drawing plants (see also code 34961)	637.9	514.2	531.5	521.1	463.0	522.0	439.1	270.2
33152	Steel nails, staples, tacks, spikes, and brads	557.6	'532.6	'485.0	'514.0	'516.1	'434.4	'447.1	'248.5
33155	Steel wire, not produced in steel mills (see also code 33125)	1 131.8	1 081.4	1 091.0	1 110.4	1 016.5	1 000.6	729.8	328.7
33156	Fencing and fence gates, made in wire drawing plants (see also code 34966)	258.7	300.0	257.6	307.5	288.6	301.6	280.3	172.1
33157	Ferrous wire cloth and other ferrous woven wire products, made in wire drawing plants (see also code 34964)	60.4	111.3	76.2	93.3	84.9	68.0	84.5	53.6
33159	Other fabricated ferrous wire products, except springs, made in wire drawing plants (see also code 34968)	644.1	458.6	420.5	542.1	599.5	547.2	639.5	390.0
33150	Steel wire and related products, n.s.k.	193.1	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3316-	Cold finishing of steel shapes	4 366.1	3 599.6	3 475.2	3 896.9	3 631.3	2 803.4	2 562.8	1 487.1
33167	Cold rolled steel sheet and strip (not made in steel mills) (see also code 33127)	3 145.4	2 558.0	2 372.2	2 682.7	2 562.1	1 815.3	1 628.5	903.8
33168	Cold finished steel bars and bar shapes (not made in steel mills) (see also code 33128)	974.8	927.5	987.3	1 139.0	952.2	905.8	909.2	558.9
33160	Cold finishing of steel shapes, n.s.k.	245.9	114.1	115.7	75.1	117.0	82.4	25.1	24.4
3317-	Steel pipe and tubes	3 751.5	3 327.8	3 377.4	3 447.8	2 917.9	3 657.1	2 620.3	1 264.5
33170	Steel pipe and tubes (not made in steel mills) (see also code 33126)	3 751.5	3 327.8	3 377.4	3 447.8	2 917.9	3 657.1	2 620.3	1 264.5
3321-	Gray and ductile iron foundries	6 839.4	6 746.0	7 145.1	7 870.3	6 467.7	6 287.7	7 835.2	4 033.8
33211	Ductile iron pressure pipe and fittings	954.2	811.1	718.9	628.1	560.5	541.6	497.6	605.4
33212	Other ductile iron castings	1 362.8	1 260.6	1 306.5	1 445.8	1 140.7	1 113.7	1 125.6	312.0
33216	Molds and stools for heavy steel ingots	235.3	274.6	345.8	421.0	389.2	345.8	551.4	245.4
33217	Cast iron pressure pipe and fittings	80.9	201.6	223.7	300.9	225.9	190.5	177.7	245.4
33218	Cast iron soil pipe and fittings, including special fittings	184.9	225.1	241.5	239.2	216.8	181.6	200.3	220.2
33219	Other gray iron castings	3 594.7	3 816.1	4 138.8	4 645.6	3 719.2	3 707.9	5 081.9	2 546.2
33210	Gray and ductile iron foundries, n.s.k.	426.5	156.9	169.9	186.6	215.5	206.6	200.8	104.6
3322-	Malleable iron foundries	342.2	361.0	456.4	470.2	362.5	370.8	669.5	484.8
33221	Standard malleable iron castings	176.9	176.3	257.5	274.2	250.9	208.0	453.0	345.8
33222	Pearlitic malleable iron castings	162.2	180.0	194.1	191.0	99.8	150.6	208.7	129.3
33220	Malleable iron foundries, n.s.k.	3.0	4.7	4.7	5.0	11.8	12.2	7.8	9.7
3324-	Steel investment foundries	1 319.2	1 250.4	1 142.2	1 049.3	872.0	963.6	434.1	237.7
33240	Steel investment castings	1 319.2	1 250.4	1 142.2	1 049.3	872.0	963.6	434.1	237.7
3325-	Steel foundries, n.e.c.	1 612.7	1 405.1	1 631.3	1 762.4	1 490.0	2 009.7	2 205.8	1 050.3
33252	Carbon steel castings, except investment	716.5	643.1	785.5	886.9	748.9	982.0	1 250.9	543.7
33254	High alloy steel castings, except investment	367.5	392.7	445.0	463.5	342.0	496.0	367.0	127.7
33255	Other alloy steel castings, except investment	362.2	313.4	345.3	361.2	335.6	465.1	521.0	346.5
33250	Steel foundries, n.e.c., n.s.k.	166.4	55.9	55.6	50.8	63.5	66.5	66.9	32.4
3331-	Primary copper	2 970.4	2 426.9	2 545.0	2 879.9	3 374.6	2 978.3	3 254.6	2 336.2
33311	Copper smelter products	1 366.7	1 271.9	1 368.4	1 425.0	1 846.7	1 454.8	1 566.2	1 358.0
33312	Refined primary copper (see also code 33412)	1 598.6	1 153.6	1 175.1	1 453.5	1 526.8	1 522.5	1 687.9	977.9
33310	Primary copper, n.s.k.	5.1	1.4	1.5	1.4	1.1	1.0	.5	.3
3334-	Primary aluminum	4 443.9	3 731.2	4 111.9	'5 546.6	'5 576.1	'4 444.7	4 291.4	1 754.5
33347	Aluminum ingot, produced in primary aluminum reduction plants (see also codes 33417 and 33553)	3 398.3	'2 856.3	'3 197.2	'4 435.1	'4 264.8	'3 499.3	3 721.5	1 513.8
33348	Aluminum extrusion billet, produced in primary aluminum reduction plants (see also codes 33418 and 33554)	1 028.4	'862.2	'909.2	'1 105.8	'1 311.1	'943.9	570.0	240.7
33340	Primary aluminum, n.s.k.	17.2	12.7	5.5	5.7	.1	1.5	-	-

See footnotes at end of table.

Table 1. Historical Statistics for Product Classes—Value Shipped by All Producers: 1987 and Earlier Years—Con.

[Million dollars. Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 product code	Product class	1987	1986 ¹	1985 ¹	1984 ¹	1983 ¹	1982	1977	1972
3339-	Primary nonferrous metals, n.e.c.³³	2 458.3	3 247.1	2 345.9	2 709.2	2 917.2	2 655.7	2 328.8	(NA)
33391	Zinc residues and other zinc smelter products	19.2	14.6	24.9	16.6	27.5	30.2	39.9	37.3
33392	Refined primary zinc (see also code 33414)	325.9	253.6	280.9	285.5	288.0	249.9	326.4	300.0
33395	Precious metals and precious metal alloys (see also code 33415)	651.6	452.1	623.8	839.6	1 062.7	921.3	464.8	(NA)
33398	Other primary nonferrous metals, n.e.c.	1 329.2	182.3	190.8	1 081.5	164.9	877.6	940.0	(NA)
33390	Primary nonferrous metals, n.e.c., n.s.k.	132.5	61.5	82.2	62.1	33.5	31.6	27.1	13.2
3341-	Secondary nonferrous metals	4 264.9	4 059.0	4 168.4	5 020.3	4 628.7	4 385.9	3 194.9	1 873.7
33412	Secondary copper (see also code 33312)	549.8	767.2	779.7	959.6	901.0	866.5	616.6	510.9
33413	Secondary lead (see also code 33398)	519.2	571.1	616.6	695.6	507.3	589.9	680.3	257.6
33414	Secondary zinc (see also code 33392)	235.9	263.0	308.5	349.9	230.6	204.3	144.7	109.6
33415	Secondary precious metals (see also code 33395)	745.3	650.9	629.6	882.5	1 210.5	1 156.6	315.6	(NA)
33416	Other secondary nonferrous metals (see also code 33398)	59.1	163.2	223.8	243.7	151.6	166.4	96.0	(NA)
33417	Aluminum ingot, produced by secondary smelters (see also codes 33347 and 33553)	1 501.1	1 285.1	1 217.8	1 499.6	1 337.4	(D)	978.3	341.0
33418	Aluminum extrusion billet, produced by secondary smelters (see also codes 33348 and 33554)	171.3	184.1	166.4	185.2	143.9	(D)	112.4	28.0
33410	Secondary nonferrous metals, n.s.k.	483.1	174.5	225.9	204.3	146.5	145.8	251.0	171.4
3351-	Copper rolling and drawing	4 667.9	3 586.1	3 386.7	3 748.7	3 573.1	2 941.6	3 536.1	2 825.0
33511	Copper and copper-base alloy wire, bare and tinned (nonelectrical)	326.4	293.2	291.2	354.3	390.1	346.4	170.7	157.9
33513	Copper and copper-base alloy rod, bar, and shapes	1 915.4	1 247.4	1 117.1	1 257.6	1 275.3	921.0	1 491.3	1 170.9
33514	Copper and copper-base alloy sheet, strip, and plate	1 017.5	844.9	873.0	969.8	906.8	800.8	937.3	705.9
33515	Copper and copper-base alloy pipe and tube	1 264.0	1 164.7	1 076.7	1 128.8	972.4	845.0	895.5	761.8
33510	Copper rolling and drawing, n.s.k.	144.5	35.8	28.7	38.2	28.4	28.3	41.3	28.5
3353-	Aluminum sheet, plate, and foil	9 051.9	7 975.1	7 817.1	8 506.3	7 734.7	6 519.7	5 358.8	2 238.0
33531	Aluminum plate (0.25 in. or more), including continuous cast	433.7	450.2	486.4	466.7	373.2	378.6	247.3	89.5
33532	Aluminum sheet and strip, including continuous cast	7 998.3	6 949.6	6 787.9	7 396.9	6 764.0	5 555.5	4 569.6	1 897.4
33533	Plain aluminum foil	546.6	547.4	514.2	610.7	563.4	545.1	476.6	216.8
33534	Aluminum welded tube	40.8	19.4	19.9	26.6	22.1	29.8	61.6	34.3
33530	Aluminum sheet, plate, and foil, n.s.k.	32.5	8.4	8.7	5.4	11.9	10.8	3.7	-
3354-	Aluminum extruded products	3 781.9	3 388.9	3 364.3	3 625.1	2 928.2	2 550.5	1 928.2	1 026.4
33541	Extruded aluminum rod, bar, and other extruded shapes	3 038.6	2 899.6	2 889.4	3 084.5	2 456.2	2 100.4	1 541.9	781.5
33542	Aluminum extruded and drawn tube	472.7	470.1	463.0	534.9	449.8	430.1	333.0	212.4
33540	Aluminum extruded products, n.s.k.	270.6	19.3	11.9	5.7	22.2	20.1	53.3	32.5
3355-	Aluminum rolling and drawing, n.e.c.	1 099.4	1 144.3	1 065.8	1 302.1	1 250.5	975.0	1 367.5	530.6
33551	Aluminum and aluminum-base alloy wire and cable (see also code 33571)	111.4	105.4	139.8	305.8	293.6	201.5	124.1	61.0
33552	Rolled aluminum rod, bar (including continuous cast), and structural shapes	326.6	326.4	315.2	373.6	356.9	341.4	530.0	303.0
33553	Aluminum ingot, produced in aluminum rolling mills (see also codes 33347 and 33417)	322.5	427.3	245.6	306.3	259.0	413.1	709.5	166.6
33554	Aluminum extrusion billet, produced in aluminum rolling mills (see also codes 33348 and 33418)	281.9	264.5	339.2	300.7	322.0	19.0	3.9	-
33550	Aluminum rolling and drawing, n.e.c., n.s.k.	57.0	20.6	26.0	15.7	19.0	19.0	3.9	-
3356-	Nonferrous rolling and drawing, n.e.c.	2 810.5	2 770.5	2 860.8	2 920.5	3 150.7	3 305.0	2 616.5	1 075.6
33561	Nickel and nickel-base alloy mill shapes (including nickel-copper alloys)	627.0	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
33562	Titanium mill shapes	454.4	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
33563	Precious metal mill shapes	843.8	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
33569	All other nonferrous metal mill shapes	678.5	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
33560	Nonferrous rolling and drawing, n.e.c., n.s.k.	176.7	46.6	48.9	62.9	39.0	39.7	78.8	45.0
3357-	Nonferrous wiredrawing and insulating	10 341.1	9 033.6	9 177.6	9 426.9	8 310.2	8 188.1	6 460.3	4 223.9
33571	Aluminum and aluminum-base alloy wire and cable (see also code 33551)	306.8	272.2	300.2	286.8	255.0	284.9	263.4	153.0
33572	Copper and copper-base alloy wire (including strand and cable), bare and tinned, for electrical transmission	485.0	510.1	578.5	563.0	433.1	402.3	496.8	353.1
33573	Other bare nonferrous metal wire, made in nonferrous wiredrawing plants (see also code 335691)	121.1	326.3	347.4	295.1	119.6	116.1	117.9	59.5
33575	Nonferrous wire cloth and other woven wire products made in nonferrous wiredrawing plants (see also code 34965)	26.5	37.4	34.1	35.3	33.3	39.1	94.5	33.9
33576	Apparatus wire and cord and flexible cord sets (see also code 36996)	809.5	743.1	731.0	750.7	560.2	477.6	447.8	262.9
33577	Magnet wire	708.1	676.1	698.6	792.6	834.2	747.0	754.4	548.8
33578	Power wire and cable	1 159.9	1 085.9	1 081.2	1 003.7	791.8	854.5	705.4	499.7
33579	Fiber optic cable	557.3	554.6	594.6	355.0	127.6	88.6	(NA)	(NA)
3357A	Electronic wire and cable	1 574.2	1 253.1	1 343.2	1 606.8	1 295.1	1 304.4	478.9	1 316.0
3357B	Telephone and telegraph wire and cable	1 435.6	1 381.9	1 458.0	1 629.1	1 704.2	1 815.2	1 600.2	(NA)
3357C	Control and signal wire and cable	191.9	176.2	146.7	181.8	269.9	248.8	128.3	956.5
3357D	Building wire and cable	1 885.5	1 490.4	1 367.9	1 324.9	1 250.9	1 083.6	890.2	(NA)
3357E	Other wire and cable, n.e.c.	510.9	484.4	478.7	569.6	477.0	550.6	431.7	(NA)
33570	Nonferrous wiredrawing and insulating, n.s.k.	568.9	42.0	17.3	22.5	158.2	175.4	50.3	40.5
3363-	Aluminum die-castings	2 328.0	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
33630	Aluminum and aluminum-base alloy die-castings	2 328.0	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3364-	Nonferrous die-castings, except aluminum	1 034.1	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
33640	Nonferrous die-castings, except aluminum	1 034.1	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3365-	Aluminum foundries (castings, except die)	1 786.6	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
33650	Aluminum and aluminum-base castings, except die	1 786.6	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3366-	Copper foundries (castings, except die)	673.1	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
33660	Copper and copper-base alloy castings, except die	673.1	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3369-	Nonferrous foundries (castings, except die), n.e.c.	379.6	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
33690	Nonferrous castings, except die	379.6	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3398-	Metal heat treating	1 387.0	1 280.9	1 218.7	1 358.1	1 045.0	1 105.9	704.1	454.1
33980	Heat treating of metal for the trade	1 387.0	1 280.9	1 218.7	1 358.1	1 045.0	1 105.9	704.1	454.1
3399-	Primary metal products, n.e.c.	1 467.9	1 255.3	1 300.2	1 276.0	1 081.8	959.0	967.5	416.5
33991	Metal powders, paste, and flakes	993.0	896.9	948.2	1 050.0	837.5	799.1	702.2	322.7
33992	Other primary metal products, n.e.c.	311.9	285.5	270.3	158.9	238.0	119.9	144.7	93.8
33990	Primary metal products, n.e.c., n.s.k.	163.0	73.0	81.7	67.1	6.3	40.0	120.6	(NA)
3411-	Metal cans	10 652.5	10 526.3	11 119.3	11 020.1	10 375.7	10 551.9	7 414.7	4 224.4
34111	Steel cans and tinware products	4 852.6	4 971.8	5 346.8	5 428.1	5 567.6	5 643.7	3 368.5	4 202.2
34112	Aluminum cans	5 626.7	5 459.2	5 670.5	5 515.6	4 780.5	4 878.7	46.2	22.2
34110	Metal cans, n.s.k.	173.2	95.2	101.9	76.4	27.6	29.5	46.2	22.2

See footnotes at end of table.

Table 1. Historical Statistics for Product Classes—Value Shipped by All Producers: 1987 and Earlier Years—Con.

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1987 product code	Product class	1987	1986 ¹	1985 ¹	1984 ¹	1983 ¹	1982	1977	1972
3412-	Metal barrels, drums, and pails	1 003.7	848.2	865.6	971.7	1 069.1	945.8	948.2	509.4
34121	Steel pails	185.3	193.6	207.4	201.6	221.4	207.8	272.9	153.0
34122	Steel shipping barrels and drums (more than 12 gallon capacity)	639.4	540.1	518.2	573.3	550.6	563.2	548.4	292.1
34123	All other metal barrels	111.2	73.3	98.9	151.8	261.9	139.9	84.0	52.1
34120	Metal barrels, drums, and pails, n.s.k.	67.8	41.3	41.0	44.9	35.2	34.9	43.0	12.2
3421-	Cutlery	1 119.3	1 034.6	1 025.0	1 029.1	997.5	953.8	666.9	403.9
34211	Cutlery, scissors, shears, trimmers, and snips	534.9	517.3	512.3	527.3	522.2	503.5	344.7	183.3
34212	Razor blades and razors, except electric	517.7	495.9	491.8	477.5	456.1	431.2	307.4	207.2
34210	Cutlery, n.s.k.	66.8	21.3	20.9	24.3	19.2	19.1	14.8	13.4
3423-	Hand and edge tools, n.e.c.	3 152.6	2 915.0	2 840.4	2 780.8	2 579.4	2 598.4	2 066.1	1 114.0
34231	Mechanics' hand service tools	1 376.8	1 323.2	1 316.2	1 240.0	1 183.3	1 330.6	1 070.2	601.2
34234	Edge tools, hand-operated	246.6	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
34235	Dies and interchangeable cutting tools, for machines and power-driven handtools	351.9	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
34236	Other handtools, n.e.c.	877.5	951.5	955.3	931.9	781.9	690.5	524.3	274.7
34230	Hand and edge tools, n.s.k.	299.7	117.2	88.3	85.0	107.4	106.6	144.0	78.0
3425-	Handsaws and saw blades	635.5	710.6	633.6	600.0	477.5	440.9	369.3	201.8
34250	Handsaws, saw blades (hand and power), and saw accessories	635.5	710.6	633.6	600.0	477.5	440.9	369.3	201.8
3429-	Hardware, n.e.c.	7 969.9	7 512.4	7 760.9	7 356.6	6 650.9	5 676.9	5 082.5	3 089.5
34292	Furniture hardware (excluding cabinet hardware)	547.5	485.5	379.4	373.2	346.3	272.0	279.9	205.0
34293	Vacuum and insulated bottles, jugs, and chests	64.0	78.3	98.0	75.0	90.9	120.4	107.0	85.4
34294	Builders' hardware	2 869.1	2 636.4	2 629.6	2 526.5	2 258.1	2 057.2	1 418.9	934.0
34296	Motor vehicle hardware	2 759.2	2 791.9	3 051.3	2 797.2	2 610.0	1 999.4	2 220.0	1 200.7
34297	Other transportation equipment hardware	382.6	327.3	333.5	344.1	331.5	274.2	155.4	133.7
34298	Other hardware, n.e.c.	741.7	904.3	998.4	980.4	757.4	667.5	648.5	399.3
34290	Hardware, n.e.c., n.s.k.	605.8	288.6	270.6	260.1	256.7	286.2	252.9	131.4
3431-	Metal sanitary ware	797.2	730.3	690.7	617.6	569.9	455.9	392.3	315.6
34310	Metal plumbing fixtures	797.2	730.3	690.7	617.6	569.9	455.9	392.3	315.6
3432-	Plumbing fittings and brass goods	2 205.0	2 149.5	1 929.8	1 832.7	1 625.3	1 325.3	1 109.1	673.2
34320	Plumbing fixture fittings and trim (brass goods)	2 205.0	2 149.5	1 929.8	1 832.7	1 625.3	1 325.3	1 109.1	673.2
3433-	Heating equipment, except electric	2 138.5	2 035.1	2 091.3	1 957.4	1 955.2	1 962.3	1 396.7	924.0
34333	Cast iron heating boilers, radiators, and convectors, except parts	372.4	377.0	328.3	283.4	237.2	224.1	187.8	152.5
34334	Domestic heating stoves, except electric (excluding parts)	262.2	317.8	309.9	302.6	310.1	310.2	174.7	70.0
34335	Steel heating boilers (15 p.s.i. or less), and all hot water boilers, excluding parts	122.3	121.5	136.7	125.6	90.6	90.9	73.3	68.7
34338	Floor and wall furnaces, unit heaters, infrared heaters and mechanical stokers	362.3	239.5	237.3	207.2	254.3	272.1	114.9	(NA)
34339	Other heating equipment, except electric	785.3	850.4	947.1	917.6	891.2	888.2	675.5	565.5
34330	Heating equipment, n.s.k.	234.0	128.9	131.9	120.9	171.8	176.7	170.5	67.3
3441-	Fabricated structural metal	7 746.0	8 152.9	8 178.4	7 518.7	7 163.7	7 956.3	4 860.9	3 305.9
34411	Fabricated structural metal for buildings	4 259.6	4 637.4	4 640.7	4 392.6	3 993.6	4 588.0	2 578.5	1 935.0
34412	Fabricated structural metal for bridges	509.9	612.6	571.7	528.0	436.0	422.8	280.2	391.2
34413	Other fabricated structural metal	1 702.0	2 261.0	2 402.3	2 042.6	1 973.3	2 153.6	1 474.1	598.8
34410	Fabricated structural metal, n.s.k.	1 233.5	641.9	563.7	555.4	760.8	792.0	528.0	380.9
3442-	Metal doors, sash, and trim	5 986.0	6 169.1	5 877.7	5 328.1	4 962.2	4 349.8	2 974.1	1 902.9
34421	Metal doors and frames, except storm doors	2 498.5	2 774.4	2 647.9	2 265.0	1 904.6	1 668.6	1 089.3	686.7
34422	Metal window sash and frames, except storm sash	1 540.5	1 815.9	1 689.1	1 584.6	1 512.8	1 279.6	801.9	511.6
34423	Metal molding and trim and store fronts	364.5	364.5	357.0	304.7	315.2	285.6	191.1	148.5
34424	Metal combination screen, storm sash, and storm doors	412.9	645.4	663.3	658.3	637.9	565.6	401.7	228.1
34425	Metal window and door screens (except combination) and metal weather strip	227.2	239.7	200.1	219.1	202.6	168.6	152.4	95.5
34420	Metal doors, sash, and trim, n.s.k.	942.3	329.3	320.3	296.5	389.2	381.8	337.7	232.5
3443-	Fabricated plate work (boiler shops)	6 202.6	5 989.7	6 560.9	6 479.3	6 872.7	8 094.5	6 641.2	3 265.7
34431	Heat exchangers and steam condensers, except for nuclear applications	916.6	871.6	959.4	866.4	983.9	1 220.5	900.5	(NA)
34432	Fabricated steel plate (stacks and weldments)	1 031.3	1 344.6	1 379.8	1 397.0	1 355.0	1 656.9	1 095.5	617.3
34433	Steel power boilers, parts, and attachments	654.8	608.3	778.4	766.1	841.7	963.1	960.3	(NA)
34434	Gas cylinders	237.6	228.0	206.0	225.0	245.9	221.5	173.3	93.5
34435	Metal tanks, complete at factory (standard line pressure)	466.6	526.4	471.0	413.5	387.6	446.7	298.5	174.7
34436	Nuclear reactor steam supply systems	335.8	569.0	698.2	536.2	722.4	634.4	695.4	(NA)
34437	Metal tanks, complete at factory (standard line nonpressure)	416.9	467.4	555.4	532.4	514.4	603.1	486.2	255.1
34438	Metal tanks and vessels, custom fabricated at the factory	656.9	743.9	856.1	864.9	768.9	1 164.2	770.6	382.1
34439	Metal tanks and vessels, custom fabricated and field erected	305.2	220.9	256.1	345.3	356.0	452.4	663.2	369.3
34430	Fabricated plate work (boiler shops), n.s.k.	1 180.9	409.6	400.5	532.6	696.9	731.6	597.7	198.4
3444-	Sheet metal work	9 009.2	7 094.7	7 047.4	7 225.5	6 686.5	6 572.6	4 607.5	2 650.7
34441	Air-conditioning ducts and stove pipe	786.0	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
34442	Culverts, flumes, irrigation pipes, etc.	266.6	360.1	399.2	454.2	369.1	396.3	371.2	242.0
34443	Bins and vats	145.0	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
34444	Metal roofing and roof drainage equipment	856.3	693.8	667.7	668.5	732.7	655.5	597.7	422.4
34445	Metal flooring and siding	920.4	986.8	1 023.4	1 119.3	975.2	950.7	775.8	301.7
34447	Metal awnings, canopies, cornices, and soffits	550.1	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
34448	Electronic enclosures	1 115.3	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
34449	Other sheet metal work	2 292.6	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
34440	Sheet metal work, n.s.k.	2 077.1	935.7	812.5	874.0	1 101.5	1 103.4	741.4	496.7
3448-	Architectural metal work	2 193.4	2 110.5	1 990.6	1 668.5	1 572.3	1 422.0	950.9	589.4
34461	Grilles, registers, and air diffusers	280.8	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
34462	Stairs, railings, fences, and gates (other than wire)	411.3	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
34463	Open flooring, grating, and studs	295.8	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
34464	Scaffolding; shoring and forming for concrete work	255.7	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
34465	Other architectural and ornamental work	545.7	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
34460	Architectural metal work, n.s.k.	404.0	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3448-	Prefabricated metal buildings	2 825.0	2 676.7	2 429.2	2 217.0	2 135.9	2 215.1	1 656.0	578.8
34481	Prefabricated metal building systems, excluding farm service buildings, residential buildings, and parts	1 806.7	1 886.3	1 735.1	1 554.0	1 439.8	1 385.6	912.2	258.9
34482	Other prefabricated and portable metal buildings and parts	647.0	584.7	555.9	547.0	572.8	709.8	630.2	311.4
34480	Prefabricated metal buildings, n.s.k.	371.2	205.8	138.1	116.1	123.3	119.8	113.6	8.5
3449-	Miscellaneous metal work	2 998.5	2 544.7	2 595.8	2 662.2	2 464.3	2 489.9	1 332.9	994.6
34494	Fabricated bar joists and concrete reinforcing bars	1 142.3	1 255.4	1 251.4	1 187.4	1 151.2	1 231.3	900.1	583.3
34496	Metal plaster bases	81.7	253.3	204.1	233.3	258.9	167.5	(NA)	(NA)
34497	Curtain wall	284.2	340.3	349.1	368.9	322.2	395.0	(NA)	(NA)
34498	Custom roll form products	1 145.5	645.6	743.4	839.8	637.2	599.2	359.2	273.6
34490	Miscellaneous metal work, n.s.k.	344.7	50.0	47.7	32.8	94.8	96.8	73.6	137.7

See footnotes at end of table.

Table 1. Historical Statistics for Product Classes—Value Shipped by All Producers: 1987 and Earlier Years—Con.

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1987 product code	Product class	1987	1986 ¹	1985 ¹	1984 ¹	1983 ¹	1982	1977	1972
3451-	Screw machine products	2 763.3	2 949.4	2 955.2	2 840.7	2 292.0	2 159.7	1 771.4	1 083.1
34511	Automotive screw machine products	881.3	1 193.9	1 152.1	1 128.3	829.8	686.7	598.4	245.7
34512	Other screw machine products	1 595.3	1 665.6	1 736.3	1 624.6	1 258.1	1 245.3	958.6	638.7
34510	Screw machine products, n.s.k.	286.7	89.9	66.8	87.7	204.1	227.8	214.4	198.7
3452-	Bolts, nuts, rivets, and washers	4 793.1	4 233.2	4 294.0	4 290.0	3 655.7	3 401.0	3 130.3	1 988.4
34524	Externally threaded fasteners (except aircraft)	1 775.1	1 609.3	1 783.6	1 798.1	1 505.1	1 451.0	1 451.2	979.5
34525	Internally threaded fasteners (except aircraft)	534.0	512.5	545.1	561.4	484.0	408.6	412.6	248.5
34526	Nonthreaded fasteners (except aircraft)	574.5	708.4	692.4	754.3	660.9	526.2	517.2	353.2
34527	Aircraft aerospace fasteners	873.1	839.6	702.2	579.0	487.7	516.7	237.9	157.8
34528	Other formed parts	481.7	415.1	431.0	475.5	377.1	329.9	284.6	140.3
34520	Bolts, nuts, rivets, and washers, n.s.k.	554.7	148.3	139.7	121.8	140.9	168.5	226.8	109.1
3462-	Iron and steel forgings	2 903.2	2 560.1	2 808.9	3 175.1	2 706.9	3 161.3	2 966.7	1 572.6
34625	Hot impression die impact, press, and upset steel forgings	2 004.7	1 805.2	2 028.7	2 347.0	1 964.3	2 265.5	2 155.4	(NA)
34626	Cold impression die impact, press, and upset steel forgings	189.8	260.6	242.3	277.4	239.9	219.8	215.7	(NA)
34627	Seamless rolled ring forgings (ferrous) (see also code 3312a)	181.2	416.2	449.3	468.8	415.1	591.9	113.8	(NA)
34628	Open die or smith forgings (hammer or press) (ferrous) (see also code 3312b)	271.8						384.7	(NA)
34620	Iron and steel forgings, n.s.k.	255.7	78.1	88.6	81.9	87.6	84.1	97.1	(NA)
3463-	Nonferrous forgings	1 061.4	1 134.5	1 221.3	1 242.1	1 187.3	1 210.9	540.4	280.8
34635	Hot impression die impact, press, and upset nonferrous forgings	884.7	938.2	1 053.0	1 061.0	979.3	1 011.2	468.1	(NA)
34639	Other nonferrous forgings	124.4	187.8	161.9	179.1	202.4	193.7	61.2	(NA)
34630	Nonferrous forgings, n.s.k.	52.3	8.6	6.4	2.0	5.5	6.0	11.1	(NA)
3465-	Automotive stampings	14 961.0	15 697.7	15 835.0	14 695.6	11 467.4	9 041.2	9 599.8	5 155.8
34650	Job stampings, automotive	14 961.0	15 697.7	15 835.0	14 695.6	11 467.4	9 041.2	9 599.8	5 155.8
3466-	Crowns and closures	811.4	861.2	817.9	799.8	811.0	790.2	581.0	339.4
34661	Metal commercial closures and metal home canning closures	686.2	710.1	662.1	639.1	642.3	627.1	470.7	274.6
34662	Metal crowns	115.4	132.8	138.8	141.5	154.8	145.0	104.8	64.8
34660	Crowns and closures, n.s.k.	9.8	18.3	17.0	19.2	13.9	18.1	5.6	-
3469-	Metal stampings, n.e.c.	7 970.0	7 199.9	7 510.4	7 942.8	7 000.5	6 172.3	4 554.5	2 614.9
34692	Job stampings, except automotive	4 252.7	3 801.1	3 901.7	4 010.2	3 279.2	2 908.9	2 199.3	1 283.1
34694	Stamped and spun utensils, cooking and kitchen, aluminum	501.2	493.3	537.0	575.2	585.9	508.2	330.1	205.0
34695	Stamped and spun utensils, cooking and kitchen, except aluminum	288.6	302.7	378.8	419.6	397.7	367.7	385.4	184.4
34696	Metal spinning products	46.5	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
34699	Other stamped and pressed metal end products	1 390.8	2 184.7	2 294.6	2 490.1	2 013.1	1 584.8	1 073.0	588.4
34690	Metal stampings, n.e.c., n.s.k.	1 490.2	418.0	398.2	447.7	724.6	802.6	566.7	354.0
3471-	Plating and polishing	3 828.4	3 389.9	3 402.7	3 385.6	2 807.8	2 680.3	1 775.1	993.4
34710	Electroplating, plating, and polishing	3 828.4	3 389.9	3 402.7	3 385.6	2 807.8	2 680.3	1 775.1	993.4
3479-	Metal coating and allied services	3 800.2	3 574.7	3 312.8	3 014.4	2 402.2	2 405.2	1 520.5	682.0
34790	Etching, engraving, coating, and allied services	3 800.2	3 574.7	3 312.8	3 014.4	2 402.2	2 405.2	1 520.5	682.0
3482-	Small arms ammunition	699.9	738.5	795.3	714.2	688.7	698.5	403.9	306.4
34820	Small arms ammunition, 30 mm or less (or 1.18 inches or less)	699.9	738.5	795.3	714.2	688.7	698.5	403.9	306.4
3483-	Ammunition, except for small arms, n.e.c.	2 901.9	2 413.3	2 003.7	1 576.9	1 538.3	1 359.0	629.3	991.2
34831	Artillery ammunition, more than 30 mm (or more than 1.18 inches)	1 181.9	1 043.9	916.2	724.5	764.4	678.8	338.3	481.2
34833	Ammunition, except for small arms, n.e.c.	1 716.2	1 364.6	1 082.1	845.7	768.0	674.2	282.9	506.1
34830	Ammunition, except for small arms, n.e.c., n.s.k.	3.8	4.8	5.4	6.7	6.0	6.0	8.1	3.9
3484-	Small arms	1 099.6	962.1	940.1	943.2	798.1	896.1	662.6	334.1
34841	Machine guns, 30 mm or less (or 1.18 inches or less)	1 056.1	938.5	917.4	921.3	780.3	879.4	647.5	(NA)
34842	Small arms, 30 mm or less (or 1.18 inches or less)	43.5	23.6	22.7	21.9	17.8	16.7	15.1	(NA)
34840	Small arms, 30 mm or less, n.s.k.								
3489-	Ordnance and accessories, n.e.c.	771.0	884.1	1 007.5	1 101.1	975.6	1 016.0	483.3	333.8
34891	Guns, howitzers, mortars, and related equipment, more than 30 mm (or more than 1.18 inches)	157.3	167.6	224.3	251.7	175.7	138.9	57.0	44.3
34892	Ordnance and accessories, n.e.c.	602.2	708.9	775.7	844.9	793.6	870.8	414.0	281.3
34890	Ordnance and accessories, n.e.c., n.s.k.	11.4	7.6	7.5	4.5	6.3	6.2	12.3	8.2
3491-	Industrial valves	4 224.1	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
34911	Gates, globes, and check valves	755.4	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
34912	Valves for water works	401.2	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
34913	Ball valves	528.9	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
34914	Butterfly valves	195.3	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
34915	Plug valves	212.9	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
34916	Industrial valves, n.e.c.	498.6	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
34917	Nuclear valves	86.4	97.2	84.0	110.2	138.9	152.0	(NA)	(NA)
34918	Automatic valves (regulating and control type) and parts (except nuclear)	1 179.9	1 264.7	1 294.5	1 233.6	1 264.1	1 233.0	696.1	513.3
34919	Solenoid valves	317.3	256.5	303.6	274.8	235.9	206.1	114.8	
34910	Industrial valves, n.s.k.	48.0	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3492-	Fluid power valves and hose fittings	2 730.4	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
34921	Hydraulic valves, except aerospace-type	519.1	539.6	492.4	526.7	466.4	435.3	(NA)	(NA)
34922	Pneumatic valves, except aerospace-type	364.0	410.7	397.2	450.5	366.3	339.2	(NA)	(NA)
34923	Aerospace-type hydraulic and pneumatic valves	373.3	297.6	297.0	259.8	298.9	262.2	(NA)	(NA)
34924	Fittings for metal and plastics tubing used in fluid and power transfer systems, except aerospace-type	433.8	387.7	427.6	421.6	277.6	302.7	(NA)	(NA)
34925	Hydraulic and pneumatic hose or tube end fittings and assemblies, except aerospace-type	518.8	455.7	349.6	398.6	367.4	319.7	(NA)	(NA)
34926	Aerospace-type hydraulic and pneumatic hose or tube end fittings and assemblies	292.1	208.1	193.9	177.6	120.5	119.0	(NA)	(NA)
34927	Parts for fluid power valves	175.6	111.0	99.1	90.7	77.8	101.0	(NA)	(NA)
34920	Fluid power valves and hose fittings, n.s.k.	53.8	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3493-	Steel springs, except wire	706.7	675.5	663.4	654.6	569.2	511.3	571.0	361.8
34931	Hot formed springs	499.7	502.7	499.6	497.6	448.8	395.8	454.2	279.1
34932	Cold formed springs	151.1	130.5	132.7	129.2	99.5	94.8	94.3	56.9
34930	Steel springs, except wire, n.s.k.	56.0	42.2	31.1	27.8	20.9	20.8	22.5	25.8
3494-	Valves and pipe fittings, n.e.c.	2 294.5	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
34944	Plumbing and heating valves and specialties, except plumbers' brass goods	392.8	350.1	469.2	426.1	244.5	220.2	206.6	139.3
34945	Metal fittings, flanges, and unions for piping systems	1 404.3	1 495.1	1 600.1	1 675.1	1 345.4	1 491.2	1 018.8	602.2
34940	Valves and pipe fittings, n.s.k.	497.4	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3495-	Wire springs	1 474.7	1 563.9	1 540.5	1 405.5	1 210.4	1 064.2	933.0	566.1
34952	Precision mechanical springs	517.2	790.2	797.0	668.7	537.3	480.7	392.0	250.5
34953	Other wire springs	809.9	695.9	670.9	669.1	625.3	534.8	500.1	312.0
34950	Wire springs, n.s.k.	147.6	77.9	81.3	67.7	47.8	48.7	40.9	3.6

See footnotes at end of table.

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1987 product code	Product class	1987	1986 ¹	1985 ¹	1984 ¹	1983 ¹	1982	1977	1972
3496– 34961	Miscellaneous fabricated wire products³⁴ ----- Noninsulated ferrous wire rope, cable, etc., not produced by wire drawers (see also code 33151) -----	2 744.7	2 481.0	2 461.2	2 464.4	2 316.3	2 128.5	1 351.9	(NA)
34964	Ferrous wire cloth and other ferrous woven wire products not produced by wire drawers (see also code 33157) -----	349.8	455.1	473.6	482.7	494.5	391.4	171.4	96.4
34965	Nonferrous wire cloth and other nonferrous woven wire products not produced by wire drawers (see also code 33575) -----	122.4	162.4	177.1	192.1	160.4	204.4	137.7	75.3
34966	Fencing and fence gates not produced by wire drawers (see also code 33156) -----	115.0	84.7	90.8	84.2	85.4	81.6	66.1	49.8
34968	Other fabricated wire products not produced by wire drawers (see also code 33159) -----	130.6	118.5	142.3	122.9	150.1	145.1	131.3	73.5
34960	Miscellaneous fabricated wire products, n.s.k. -----	1 491.5	1 508.4	1 439.7	1 420.9	1 222.1	1 089.6	626.0	(NA)
		535.4	151.8	137.7	161.6	203.7	216.5	219.5	190.2
3497– 34971	Metal foil and leaf ----- Converted unmounted aluminum foil packaging products -----	2 099.8	1 928.3	1 978.6	2 060.1	1 797.4	1 758.0	1 070.3	511.8
34972	Laminated aluminum foil rolls and sheets for flexible packaging uses -----	707.6	689.3	731.0	730.1	622.8	654.5	386.7	197.3
34973	Converted foil for nonpackaging applications and foil and leaf -----	908.5	887.6	876.7	897.0	800.4	775.5	496.9	229.3
34970	Metal foil and leaf, n.s.k. -----	385.3	304.2	321.3	394.9	370.4	324.4	165.1	67.7
		98.4	47.2	49.6	38.1	3.7	3.6	21.6	17.5
3498– 34980	Fabricated pipe and fittings ----- Fabricated pipe and pipe fittings made from purchased pipe -----	1 759.5	1 903.3	2 322.9	2 609.5	2 708.2	3 035.3	1 698.1	670.5
		1 759.5	1 903.3	2 322.9	2 609.5	2 708.2	3 035.3	1 698.1	670.5
3499– 34991	Fabricated metal products, n.e.c. ----- Safes and vaults -----	5 702.9	5 451.8	5 069.2	5 080.7	4 127.5	4 210.9	3 390.3	2 131.8
34992	Collapsible tubes -----	233.8	227.2	270.3	277.5	261.6	282.6	181.6	146.2
34993	Flat metal strapping -----	94.6	96.2	83.7	111.1	99.7	84.7	106.5	49.1
34995	Metal ladders -----	398.5	436.9	359.2	381.1	315.8	271.6	272.6	167.8
34996	Powder metallurgy parts -----	217.4	228.1	217.8	200.6	188.0	152.0		
34998	All other fabricated metal products, n.e.c. -----	567.3	550.1	496.5	556.1	410.9	441.3	2 300.0	1 390.5
34990	Fabricated metal products, n.e.c. -----	2 682.7	3 311.8	3 242.5	3 141.3	2 331.5	2 277.1		
		1 508.6	601.6	399.1	413.1	519.9	701.5	529.6	378.2
3511– 35111	Turbines and turbine generator sets ----- Turbine generators, turbine generator sets, and parts -----	3 196.0	3 204.2	3 718.6	3 608.0	3 636.4	3 662.3	2 813.1	2 079.7
35112	Steam, gas, hydraulic, and wind turbines and parts -----	1 502.1	(D)	812.0	850.1	740.6	786.5	1 369.2	1 521.6
35110	Turbines and turbine generator sets, n.s.k. -----	1 651.5	(D)	2 882.0	2 726.3	2 859.5	2 846.9	1 415.4	541.5
		42.4	24.4	24.7	31.6	36.3	28.9	28.5	16.6
3519– 35191	Internal combustion engines, n.e.c. ----- Gasoline and gas-gasoline engines -----	10 908.7	10 499.6	10 906.4	11 254.4	8 812.8	8 972.4	7 548.0	3 353.4
35193	Diesel, semidiesel, and dual fuel engines (nonautomotive) -----	1 474.3	1 235.0	1 140.0	1 149.9	930.5	1 001.8	892.9	490.8
35194	Diesel, semidiesel, and dual fuel engines (automotive) -----	1 198.3	1 139.9	1 250.9	1 458.0	1 167.4	1 548.2	1 587.4	604.0
35195	Outboard motors (internal combustion) -----	2 744.3	2 458.4	2 789.0	2 910.6	1 891.5	1 715.6	1 322.2	634.6
35196	Natural gas engines (excluding gas turbines) -----	(D)	(D)	(D)	(D)	(D)	(³⁵)	(³⁵)	(³⁵)
		66.0	78.8	137.3	73.3	53.8	99.6	31.9	35.2
35197	Tank (except gas turbine) and converted internal combustion engines -----	(D)	(D)	(D)	(D)	(D)	3 ⁵¹ 143.4	3 ⁵⁸ 13.7	3 ⁵⁴ 25.9
35199	Parts and accessories for internal combustion engines -----	3 789.9	3 804.9	4 162.2	4 202.6	3 277.9	3 405.7	2 846.9	1 144.9
35190	Internal combustion engines, n.e.c., n.s.k. -----	90.3	66.4	68.8	75.0	56.7	58.2	52.9	18.0
3523– 35231	Farm machinery and equipment ----- Wheel tractors and attachments -----	6 384.7	6 131.0	7 469.8	9 219.5	8 542.8	10 370.0	9 548.9	4 143.5
35232	Farm dairy equipment, sprayers, elevators, and blowers -----	751.2	776.0	1 323.4	2 125.4	1 876.0	2 321.9	2 637.0	1 215.2
35233	Planting, seeding, and fertilizing machinery -----	263.8	306.8	332.3	320.6	362.1	382.2	306.4	157.8
35235	Harvesting machinery, except hay and straw -----	313.2	315.1	377.9	530.2	383.9	566.5	466.5	172.0
35236	Haying machinery -----	1 014.8	967.4	939.2	1 187.0	1 247.6	1 854.1	1 463.3	580.4
		326.6	297.8	413.1	486.2	413.5	444.8	414.9	184.1
35239	Parts for farm machinery -----	1 282.5	1 401.4	1 869.7	2 105.2	1 889.6	2 327.6	1 609.5	741.4
3523C	Plows, harrows, rollers, pulverizers, cultivators, and weedeers -----	3 ⁶¹ 189.6	3 ⁷² 217.8	3 ⁷³ 307.2	3 ⁷⁴ 413.9	3 ⁷⁵ 363.1	3 ⁷⁶ 424.6	3 ⁷⁷ 591.2	3 ⁷⁸ 277.2
3523E	All other farm machinery and equipment -----	3 ⁷⁹ 909.9	3 ⁸⁰ 056.6	3 ⁸¹ 048.9	3 ⁸² 106.5	3 ⁸³ 092.2	3 ⁸⁴ 156.3	3 ⁸⁵ 228.0	3 ⁸⁶ 10.8
3523F	Commercial turf and grounds care equipment -----	516.9	424.8	394.5	323.3	262.1	238.2	280.3	(NA)
35230	Farm machinery and equipment, n.s.k. -----	816.2	618.3	663.5	661.1	652.6	653.7	551.8	382 04.6
3524– 35241	Lawn and garden equipment ----- Consumer nonriding lawn, garden, and snow equipment -----	4 061.0	3 455.7	3 166.0	2 977.3	2 584.5	2 385.2	1 747.2	3 ⁹¹ 143.4
35244	Consumer riding lawn, garden, and snow equipment -----	1 697.0	1 556.4	1 438.8	1 385.9	1 230.3	1 167.5	841.2	(NA)
35246	Parts and attachments for consumer lawn, garden, and snow equipment -----	1 567.4	1 270.2	1 165.7	1 030.5	848.7	765.2	577.4	(NA)
35240	Lawn and garden equipment, n.s.k. -----	699.5	541.2	493.8	489.2	450.2	399.3	302.5	(NA)
		97.2	88.0	67.7	71.7	55.4	53.3	26.1	2.5
3531– 3531A	Construction machinery ----- Contractors' off-highway type, wheel tractors -----	11 704.6	(NA)	(NA)	(NA)	(NA)	10 648.3	(NA)	(NA)
3531B	Crawler tractors -----	379.7	361.8	441.2	421.9	293.1	266.8	453.6	251.5
3531C	Tractor shovel loaders -----	945.6	839.6	694.7	768.0	670.5	804.8	1 164.6	564.0
3531E	Power cranes, draglines, and shovels -----	1 741.8	1 537.9	1 799.6	1 794.5	1 488.1	1 248.4	1 537.2	810.7
3531F	Mixers, pavers, and related equipment (excluding parts) -----	957.1	401 537.8	401 452.3	401 530.7	401 554.2	401 940.3	402 749.3	402 642.5
3531G	Scrapers, graders, rollers, and off-highway trucks -----	586.1	606.5	608.4	450.6	352.2	307.0	304.8	252.0
3531H	Construction machinery for mounting on tractors and other prime movers -----	1 221.4	(NA)	(NA)	(NA)	(NA)	4 ⁴¹ 436.2	(NA)	(NA)
3531I	Construction machinery for mounting on tractors and other prime movers -----	593.5	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3531K	Construction machinery, n.e.c. ⁴² -----	1 356.9	(NA)	(NA)	(NA)	(NA)	1 173.2	(NA)	(NA)
3531M	Parts for construction machinery and equipment -----	3 269.1	(NA)	(NA)	(NA)	(NA)	4 ⁴³ 290.9	4 ⁴² 954.4	4 ⁴¹ 218.5
35310	Construction machinery, n.s.k. -----	653.4	408.2	360.5	354.1	325.2	316.6	305.1	117.7
3532– 35325	Mining machinery ----- Underground mining machinery -----	1 362.9	1 459.1	1 604.9	1 578.0	1 354.1	1 936.3	1 785.6	729.8
35326	Mineral processing and beneficiation machinery -----	208.4	248.2	333.5	306.8	186.6	448.6	432.1	(NA)
35327	Crushing, pulverizing, and screening machinery -----	66.3	60.8	71.0	59.5	63.3	91.3	100.9	168.5
35328	Drills and other mining machinery, n.e.c. -----	148.7	183.4	171.5	133.9	132.6	182.4	181.9	101.3
35329	Parts and attachments for mining machinery and equipment -----	127.9	99.2	109.1	115.6	85.1	129.9	120.5	93.5
35320	Mining machinery, n.s.k. -----	680.0	784.0	850.7	890.0	782.5	983.8	841.4	331.1
		131.6	83.6	69.1	72.3	103.9	100.4	108.8	35.4
3533– 35337	Oil and gas field machinery ----- Rotary drilling machinery and equipment -----	2 291.4	2 903.5	4 822.7	4 854.5	5 667.4	9 514.1	3 219.4	980.0
35338	Other drilling machinery and equipment -----	698.4	1 302.8	2 273.2	2 146.7	2 328.1	4 636.0	1 429.7	435.2
35339	Oil field and gas field production machinery and equipment -----	89.4	1 019.6	1 708.8	1 882.7	1 975.9	3 035.2	4 ⁴⁴ 110.5	4 ⁴⁵ 376.5
3533A	Portable drilling rigs and parts -----	224.8	216.7	251.4	238.5	251.3	4 ⁴⁶ 532.3		
3533B	Derricks and well surveying machinery -----	97.7	175.3	333.4	259.4	546.9	737.2	520.6	113.6
35330	Oil and gas field machinery, n.s.k. -----	312.0	189.0	255.9	327.3	565.2	573.4	158.6	54.7
3534– 35341	Elevators and moving stairways ----- Elevators and moving stairways -----	1 053.2	1 192.0	1 119.8	1 104.4	1 025.9	1 019.7	435.1	412.2
35342	Parts and attachments for elevators and moving stairways (sold separately) -----	752.8	840.7	792.8	747.3	748.8	747.3		
35340	Elevators and moving stairways, n.s.k. -----	198.4	256.4	239.7	212.4	195.0	187.4	435.1	412.2
		102.0	94.9	87.3	85.2	82.1	84.9		
3535– 35353	Conveyors and conveying equipment ----- Unit handling conveyors and conveying systems, except hoists and farm elevators -----	3 106.6	2 994.0	2 723.0	2 452.2	2 193.7	2 570.7	1 684.6	825.6
35354	Parts for unit handling conveyors -----	1 548.3	1 436.2	1 174.1	959.6	888.8	994.2	586.5	(⁴⁵)
35355	Bulk material handling conveyors -----	118.9	214.0	188.8	151.9	107.3	107.4	73.1	(⁴⁶)
35356	Parts for bulk material handling conveyors -----	765.0	826.1	858.1	811.0	763.9	953.4	640.2	4 ⁴⁶ 558.8
35350	Conveyors and conveying equipment, n.s.k. -----	296.7	294.0	311.7	323.5	243.6	294.7	204.4	4 ⁴⁶ 107.1
		377.8	223.7	190.3	206.2	190.2	221.0	180.4	59.7

See footnotes at end of table.

Table 1. Historical Statistics for Product Classes—Value Shipped by All Producers: 1987 and Earlier Years—Con.

(Million dollars. Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes)

1987 product code	Product class	1987	1986 ¹	1985 ¹	1984 ¹	1983 ¹	1982	1977	1972
3536-	Holsts, cranes, and monorails	745.6	(NA)	(NA)	(NA)	(NA)	1 086.9	901.3	446.0
35363	Holsts	348.5	47408.5	47386.2	47401.2	47396.1	47422.5	47404.1	47167.4
35364	Overhead traveling cranes and monorail systems	297.1	(NA)	(NA)	(NA)	(NA)	516.4	384.9	227.9
35360	Holsts, cranes, and monorails, n.s.k.	100.1	75.8	66.8	84.3	83.2	89.8	70.4	25.1
3537-	Industrial trucks and tractors	2 257.3	(NA)	(NA)	(NA)	(NA)	1 839.9	(NA)	(NA)
35373	Industrial trucks and tractors	1 486.8	(NA)	(NA)	(NA)	(NA)	1 267.0	(NA)	(NA)
35374	Parts for industrial trucks and tractors	436.6	(NA)	(NA)	(NA)	(NA)	409.1	(NA)	(NA)
35370	Industrial trucks and tractors, n.s.k.	333.8	242.8	175.3	144.6	164.2	163.8	187.9	103.9
3541-	Machine tools, metal cutting types	2 585.2	2 939.7	2 920.7	2 815.0	2 544.9	4 154.7	2 560.5	1 258.5
3541D	Boring machines and drilling machines	157.0	129.7	135.9	142.8	139.4	266.0	202.4	132.4
35413	Gear cutting machines	62.4	57.8	56.5	41.6	40.3	87.3	67.1	56.7
35414	Grinding, polishing, buffing, honing, and lapping machines	396.1	412.4	412.4	378.3	331.6	515.3	288.3	168.6
35415	Lathes	266.5	265.3	313.0	300.6	306.5	523.6	455.9	197.6
35416	Milling machines	197.2	154.0	185.5	184.6	145.4	264.5	167.8	86.6
35418	Machine tools home workshops	97.2	96.9	121.0	94.9	71.9	85.7	66.3	48303.1
35419	Parts for metal cutting type machine tools	577.5	740.1	732.4	794.6	694.6	891.9	502.1	242.1
3541A	Machining centers	231.7	227.8	230.9	215.3	184.5	365.7		(⁴⁸)
3541B	Station type machines	316.4	516.1	388.3	330.3	271.9	735.4	647.3	(⁴⁸)
3541C	Metal cutting machine tools, n.e.c.	189.1	137.9	158.7	162.2	181.4	250.6		(⁴⁸)
35410	Machine tools, metal cutting types, n.s.k.	94.2	201.8	186.1	169.8	177.5	168.7	163.3	71.4
3542-	Machine tools, metal forming types	1 370.3	1 429.5	1 432.5	1 362.6	1 119.2	1 383.9	1 114.7	670.1
35421	Punching, shearing, bending, and forming machines	334.4	303.3	376.1	355.4	242.3	317.3	280.1	153.4
35422	Presses, except forging and die-stamping	268.9	306.6	281.5	247.7	176.5	369.2	282.6	183.2
35423	Other metal forming machine tools, n.e.c.	307.0	219.5	200.1	178.4	168.9	217.0	171.7	149.0
35424	Parts for metal forming machine tools	392.9	505.8	480.2	482.7	430.7	380.0	295.5	161.5
35420	Machine tools, metal forming types, n.s.k.	67.3	94.2	94.7	98.4	100.8	100.5	85.0	23.0
3543-	Industrial patterns	558.5	601.8	573.4	510.4	493.6	561.5	411.9	234.4
35430	Industrial patterns, except shoe patterns	558.5	601.8	573.4	510.4	493.6	561.5	411.9	234.4
3544-	Special dies, tools, jigs, and fixtures	8 147.1	8 567.8	8 143.8	7 561.4	6 113.3	6 099.3	4 450.2	2 713.5
35441	Special dies and tools, die sets, jigs, and fixtures	4 221.2	5 090.3	4 745.1	4 343.5	3 410.2	3 425.9	2 578.0	1 520.1
35442	Industrial molds and mold boxes	2 526.1	2 449.1	2 491.3	2 248.3	1 817.5	1 800.6	1 040.0	640.3
35440	Special dies, tools, jigs, and fixtures, n.s.k.	1 399.9	1 028.3	907.3	969.6	885.6	872.8	832.2	553.1
3545-	Machine tool accessories	3 422.0	⁴⁹ 3 464.4	3 506.0	3 376.8	2 652.4	3 069.1	2 238.9	1 151.4
35451	Small cutting tools for machine tools and metalworking machinery	1 881.2	2 053.8	2 030.8	1 982.0	1 485.3	1 755.7	1 376.4	738.0
35454	Machine tool attachments and accessories, n.e.c.	542.6	770.4	793.2	670.7	524.6	593.6	430.9	218.8
35455	Precision measuring tools	443.8	466.4	487.7	456.7	343.8	402.7	208.2	94.7
35450	Machine tool accessories, n.s.k.	554.4	173.9	194.3	267.4	298.7	317.1	223.5	99.9
3546-	Power-driven handtools	1 886.9	1 924.4	1 895.4	1 824.1	1 591.3	1 594.8	1 496.5	⁵⁰ 725.0
35461	Power-driven handtools, electric (including battery-powered)	1 062.7	1 036.5	988.8	906.5	829.6	829.7	748.7	386.9
35462	Power-driven handtools, pneumatic, hydraulic, and powder-actuated	508.5	544.3	524.4	485.3	389.6	382.4	371.1	
35463	Power-driven handtools, engine (internal combustion) driven	213.7	269.7	300.1	350.1	318.2	326.5	347.1	320.0
35460	Power-driven handtools, n.s.k.	101.9	73.9	82.1	82.1	54.0	56.0	29.6	18.1
3547-	Rolling mill machinery	403.0	263.9	351.5	273.0	339.9	445.1	361.0	247.9
35471	Hot rolling mill machinery (except tube rolling)	175.3	95.5	144.2	84.7	147.1	180.5	147.0	134.7
35472	Cold rolling mill machinery	67.2	54.2	66.9	65.4	73.4	65.1	74.9	52.4
35473	Rolling mill machinery, n.e.c., and parts	137.3	102.8	131.2	109.7	107.0	188.2	120.8	55.6
35470	Rolling mill machinery, n.s.k.	23.2	11.3	9.2	13.3	12.4	11.4	18.3	5.2
3548-	Welding apparatus	1 918.0	(NA)	(NA)	(NA)	(NA)	1 606.6	(NA)	(NA)
35481	Arc welding machines, components, and accessories	609.9	515.3	575.2	543.1	446.6	511.6	407.8	218.5
35482	Arc welding electrodes, metal	494.4	508.3	505.5	510.2	398.9	469.6	447.6	215.5
35483	Resistance welders, components, accessories, and electrodes	303.6	333.8	295.5	210.8	168.9	187.8	136.9	115.1
35484	Gas welding and cutting equipment	205.3	219.4	240.5	230.6	223.8	226.6	(NA)	(NA)
35485	Other welding equipment, except ultrasonic and laser	182.6	(NA)	(NA)	(NA)	(NA)	⁵¹ 148.4	(NA)	(NA)
35480	Welding apparatus, n.s.k.	122.1	(NA)	(NA)	(NA)	(NA)	⁵² 62.7	(NA)	(NA)
3549-	Metalworking machinery, n.e.c.	1 004.1	(NA)	(NA)	(NA)	(NA)	780.2	(NA)	(NA)
35492	Assembly machines	505.3	530.9	465.5	397.0	242.7	367.6	128.4	(NA)
35495	Metalworking machinery, n.e.c.	336.9	(NA)	(NA)	(NA)	(NA)	313.0	(NA)	(NA)
35490	Metalworking machinery, n.e.c., n.s.k.	161.8	(NA)	(NA)	(NA)	(NA)	⁵³ 99.6	(NA)	(NA)
3552-	Textile machinery	1 104.2	1 038.9	908.6	980.0	948.5	965.5	857.1	738.1
35521	Textile machinery	515.4	443.3	387.7	407.3	414.1	454.3	361.6	373.8
35522	Parts and attachments for textile machinery	433.9	549.6	461.9	466.8	409.8	390.0	405.2	305.7
35520	Textile machinery, n.s.k.	154.9	46.1	59.0	105.9	124.5	121.3	90.3	58.6
3553-	Woodworking machinery	793.4	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
35533	Woodworking machinery, except for home workshops	476.0	(NA)	(NA)	(NA)	(NA)	288.2	301.1	(NA)
35534	Woodworking machinery for home workshops	199.1	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
35530	Woodworking machinery, n.s.k.	118.3	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3554-	Paper industries machinery	1 580.7	1 296.3	1 151.6	1 130.0	1 021.4	1 199.0	698.3	301.4
35543	Paper industries machinery	936.1	(NA)	(NA)	(NA)	(NA)	870.7		
35544	Parts and attachments for paper industries machinery (sold separately)	507.8	(NA)	(NA)	(NA)	(NA)	258.9	698.3	381.4
35540	Paper industries machinery, n.s.k.	136.9	56.4	52.9	64.1	50.3	69.4		
3555-	Printing trades machinery	2 554.3	(NA)	(NA)	(NA)	(NA)	1 971.8	1 168.8	687.3
35551	Printing presses, offset lithographic	724.4	679.0	676.0	571.1	595.2	665.0	290.9	156.0
35552	Printing presses, other than lithographic	175.9	151.5	114.8	135.4	174.9	148.9	121.3	90.2
35553	Typesetting machinery	333.1	316.6	350.9	425.4	380.5	303.4	252.8	104.1
35556	Binding machinery and equipment	276.1	160.2	151.3	144.5	161.9	171.6	68.4	
35558	Printing trades machinery, n.e.c.	784.5	(NA)	(NA)	(NA)	(NA)	567.0	344.7	287.7
35550	Printing trades machinery, n.s.k.	260.3	136.7	122.8	134.9	127.2	116.0	90.7	49.3
3556-	Food products machinery	1 735.2	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
35561	Dairy and milk products plant machinery and equipment	262.3	209.3	242.8	209.7	166.7	176.4	128.5	57.4
35562	Commercial food products machinery	619.5	510.9	489.7	469.3	495.7	479.7	357.2	185.0
35563	Industrial food products machinery and equipment	559.8	(NA)	(NA)	(NA)	(NA)	585.6	426.5	283.2
35560	Food products machinery, n.s.k.	293.6	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3559-	Special industry machinery, n.e.c.	7 951.0	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
35591	Chemical manufacturing machinery	719.7	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
35592	Foundry machinery and equipment	240.9	201.6	200.4	193.1	169.1	260.0	319.2	132.3
35593	Plastics working machinery and equipment	1 234.4	1 063.4	1 070.6	956.3	761.2	785.7	669.6	434.1
35594	Rubber working machinery and equipment	196.2	150.3	173.5	148.9	179.1	187.0	158.1	137.3
35596	Semiconductor manufacturing equipment	1 014.3	(NA)	(NA)	(NA)	(NA)	815.3	(NA)	(NA)

See footnotes at end of table.

Table 1. Historical Statistics for Product Classes—Value Shipped by All Producers: 1987 and Earlier Years—Con.

[Million dollars. Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 product code	Product class	1987	1986 ¹	1985 ¹	1984 ¹	1983 ¹	1982	1977	1972
3559-	Special industry machinery, n.e.c.—Con.								
35597	Automotive maintenance equipment, except handtools	374.2	297.8	300.0	285.4	226.4	200.3	188.0	111.1
35599	Special industry machinery and equipment, n.e.c.	2 973.2	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
35590	Special industry machinery, n.e.c., n.s.k.	1 198.1	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3561-	Pumps and pumping equipment	3 447.6	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
35611	Industrial pumps, except fluid power pumps	1 659.8	1 693.3	1 669.0	1 681.4	1 686.3	1 916.9	1 386.7	611.9
35613	Domestic water systems	276.9	262.8	257.8	306.3	240.2	215.5	223.8	151.1
35615	Pumps, n.e.c., except fluid power	446.9	522.0	657.9	674.6	589.8	¹ 050.5	395.7	186.4
35616	Parts for pumps, except fluid power	875.3	955.3	1 095.2	1 016.2	1 077.1	1 298.9	861.6	346.5
35610	Pumps and pumping equipment, n.s.k.	188.9	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3562-	Ball and roller bearings	3 563.8	3 465.5	3 555.5	3 697.5	2 777.9	2 973.1	2 444.5	1 418.7
35621	Ball bearings, complete, unmounted	1 306.1	1 343.3	1 361.7	1 356.3	1 066.7	1 087.1	749.9	474.2
35622	Tapered roller bearings (including cups and cones), unmounted	756.2	664.4	738.6	882.0	615.3	710.9	748.6	420.0
35623	Roller bearings, except tapered, unmounted	735.5	719.4	706.5	691.8	551.3	614.1	472.9	280.9
35624	Mounted bearings, except plain	300.4	300.9	305.9	321.7	240.0	241.7	213.1	100.9
35629	Parts for ball and roller bearings, except cups and cones	425.5	409.5	419.4	421.4	282.6	298.4	243.1	138.2
35620	Ball and roller bearings, n.s.k.	40.2	28.0	23.5	24.3	21.9	20.9	16.8	4.5
3563-	Air and gas compressors	2 628.9	2 712.9	2 929.0	2 863.6	2 428.6	1 630.7	1 923.4	722.7
35631	Air and gas compressors and vacuum pumps	1 259.8	1 311.9	1 525.2	1 497.0	1 260.4	⁵⁴² 799.8	1 290.3	480.8
35632	Parts and attachments for air and gas compressors	538.5	523.7	585.7	578.6	605.5	652.7	384.1	148.4
35635	Industrial spraying equipment	669.1	815.8	755.2	727.8	483.8	442.0	221.6	93.5
35630	Air and gas compressors, n.s.k.	161.6	61.6	62.9	60.2	78.8	74.4	27.4	-
3564-	Blowers and fans	2 181.6	2 074.3	1 963.9	1 874.7	1 876.4	1 994.5	1 422.3	682.0
35643	Centrifugal fans and blowers	587.6	545.9	485.1	478.1	460.9	556.9	354.1	181.0
35644	Propeller and axial fans, and power roof ventilators	464.7	509.0	494.6	445.2	448.5	464.8	303.3	159.9
35645	Air purification equipment for environmental systems	574.9	545.0	490.7	444.2	426.2	425.5	260.7	121.3
35646	Air purification equipment for industrial gases	296.9	379.6	403.5	404.7	419.3	425.6	381.7	198.0
35640	Blowers and fans, n.s.k.	257.4	94.8	89.9	102.5	121.5	121.7	122.5	21.8
3565-	Packaging machinery	2 039.9	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
35651	Packing, packaging, and bottling machinery, except parts	1 690.4	1 946.2	1 835.5	1 711.7	1 640.8	1 343.4	⁵⁵⁰ 931.5	⁵⁵⁰ 409.5
35652	Parts for packing, packaging, and bottling machinery	303.8							
35650	Packaging machinery, n.s.k.	45.7							
3566-	Speed changers, drives, and gears	1 541.4	1 411.2	1 434.6	1 426.7	1 298.6	1 557.4	1 199.7	593.0
35660	Speed changers, industrial high-speed drives, and gears	1 541.4	1 411.2	1 434.6	1 426.7	1 298.6	1 557.4	1 199.7	593.0
3567-	Industrial furnaces and ovens	1 235.5	1 219.2	1 256.2	1 154.1	888.8	1 026.8	707.1	341.1
35671	Electric industrial furnaces, ovens, and kilns	367.7	354.8	374.3	342.0	244.4	295.2	140.3	67.5
35674	High-frequency induction and dielectric heating equipment	126.2	106.3	121.0	109.3	104.3	131.9	133.4	147.0
35675	Electrical heating equipment for industrial use, n.e.c.	321.5	464.2	441.6	376.9	301.8	289.1	204.1	
35676	Fuel-fired industrial furnaces, ovens, and kilns	263.6	244.7	266.6	232.4	175.5	248.6	144.4	
35670	Industrial furnaces and ovens, n.s.k.	156.4	49.2	52.7	93.5	62.8	62.0	84.9	29.4
3568-	Power transmission equipment, n.e.c.	2 071.0	2 219.9	2 315.3	2 244.6	1 703.2	1 985.6	1 710.9	975.0
35681	Plain bearings and bushings	373.8	445.4	471.1	433.0	332.9	385.0	275.1	121.0
35683	Mechanical power transmission equipment, n.e.c.	1 555.2	1 717.6	1 796.4	1 760.3	1 328.9	1 556.3	1 419.1	854.0
35680	Power transmission equipment, n.e.c., n.s.k.	142.0	57.0	47.8	51.4	41.4	44.3	16.6	-
3569-	General industrial machinery, n.e.c.	3 840.5	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
35692	Filters for hydraulic and pneumatic fluid power systems	274.4	281.8	268.4	236.9	226.8	215.7	630.0	275.4
35693	Filters and strainers, except fluid power	1 159.5	1 143.6	1 176.2	1 119.8	965.8	1 137.4		
35697	Industrial robots, attachments and parts	294.7	1 772.6	1 813.1	1 697.5	1 572.2	1 680.4	1 311.6	535.5
35698	Other general industrial machinery, n.e.c.	1 441.3							
35690	General industrial machinery, n.e.c., n.s.k.	670.6							
3571-	Electronic computers	26 624.2	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
35711	Computers (excluding word processors, peripherals, and parts)	21 619.9	19 959.1	19 742.0	16 956.7	12 420.4	10 927.6	3 546.9	1 884.3
35712	Parts for computers	4 288.8	(NA)	(NA)	(NA)	(NA)	3 932.9	1 247.0	629.6
35710	Electronic computers, n.s.k.	715.5	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3572-	Computer storage devices	6 904.9	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
35721	Computer storage equipment, auxiliary	6 311.8	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
35722	Parts for computer storage equipment, auxiliary	559.6	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
35720	Computer storage devices, n.s.k.	33.6	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3575-	Computer terminals	2 729.7	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
35751	Computer terminals	2 554.7	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
35752	Parts for computer terminals	139.0	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
35750	Computer terminals, n.s.k.	36.0	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3577-	Computer peripheral equipment, n.e.c.	12 542.3	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
35771	Computer peripheral equipment, n.e.c.	7 955.3	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
35772	Parts for computer peripheral equipment, n.e.c.	4 236.1	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
35770	Computer peripheral equipment, n.e.c., n.s.k.	351.0	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3578-	Calculating and accounting equipment	1 208.5	1 172.3	1 228.1	1 447.9	1 385.6	1 397.6	836.2	694.2
35781	Accounting machines and cash registers	(D)	850.4	908.1	1 120.6	1 025.5	952.6	402.9	(D)
35782	Calculators	(D)	152.1	150.9	168.2	204.1	250.5	369.5	(D)
35783	Parts for calculating and accounting machines	101.3	153.6	157.8	147.4	141.9	182.0	59.0	(D)
35780	Calculating and accounting machines, n.s.k.	77.4	16.2	11.3	11.6	14.1	12.6	4.8	11.0
3579-	Office machines, n.e.c.	3 252.7	3 293.6	4 075.2	3 839.9	3 712.8	3 512.3	2 020.3	1 046.9
35792	Automatic typing and word processing machines	1 210.0	1 169.1	1 811.0	1 872.0	1 628.8	1 491.5	(NA)	(NA)
35793	Duplicating machines	1 272.2	170.1	157.2	202.7	173.3	158.8	195.7	83.6
35795	Mailing, letter handling, and addressing machines	811.4	801.3	595.0	536.1	521.9	387.8	235.3	128.6
35799	Standard typewriters and office machines, n.e.c.	618.0	795.7	1 197.3	913.9	967.1	1 122.6	(NA)	(NA)
3579A	Parts for office machines, n.e.c.	317.9	296.1	266.9	231.6	333.6	306.7	(NA)	(NA)
35790	Office machines, n.e.c., n.s.k.	168.2	61.3	47.9	83.6	88.0	44.9	38.0	18.0
3581-	Automatic merchandising vending machines	695.2	637.9	619.4	557.2	550.8	445.7	396.2	306.3
35811	Automatic merchandising machines	502.1	454.9	439.6	391.1	383.2	334.1	294.9	231.5
35812	Coin-operated mechanisms and parts for automatic merchandising machines	161.9	167.9	164.3	143.0	152.0	96.2	84.3	61.1
35810	Automatic merchandising machines, n.s.k.	31.2	15.0	15.5	23.1	15.6	15.5	17.0	13.7
3582-	Commercial laundry equipment	433.2	384.1	379.6	369.2	344.6	338.7	233.6	185.3
35820	Commercial laundry	433.2	384.1	379.6	369.2	344.6	338.7	233.6	185.3
3585-	Refrigeration and heating equipment	15 337.5	14 632.2	14 669.9	14 575.5	12 200.8	11 150.7	(NA)	(NA)
35851	Heat transfer equipment	3 692.5	3 462.9	3 753.8	3 552.5	3 213.3	2 908.0	2 251.2	1 680.5
35852	Unitary air-conditioners	3 454.0	3 320.4	3 112.4	3 080.9	2 506.4	1 972.1	1 673.0	1 070.6
35853	Commercial refrigerators and related equipment	1 768.9	1 668.8	1 601.7	1 489.9	1 259.6	1 070.8	759.4	482.3
35854	Compressors and compressor units, all refrigerants	2 317.4	2 257.6	2 106.6	2 257.4	2 065.1	1 734.7	1 580.3	1 065.4
35855	Refrigeration condensing units (complete)	241.1	243.2	224.9	223.5	238.8	196.9	175.6	146.8

See footnotes at end of table.

Table 1. Historical Statistics for Product Classes—Value Shipped by All Producers: 1987 and Earlier Years—Con.

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1987 product code	Product class	1987	1986 ¹	1985 ¹	1984 ¹	1983 ¹	1982	1977	1972
3585-	Refrigeration and heating equipment—Con.								
35856	Room air-conditioners and dehumidifiers	909.7	776.5	965.3	970.9	609.3	897.5	720.4	679.6
35859	Refrigeration and air-conditioning equipment, n.e.c.	447.2	627.2	632.5	609.2	392.9	428.9	(NA)	(NA)
3585C	Warm air furnaces, humidifiers, and electric comfort heating equipment	883.5	949.5	881.0	845.6	700.9	520.3	(NA)	(NA)
3585D	Parts for refrigeration and heating equipment	1 153.9	⁵⁶¹ 037.6	⁵⁶¹ 142.2	⁵⁶¹ 285.6	⁵⁶⁸ 91.7	⁵⁶⁵ 93.0	(NA)	(NA)
35850	Refrigeration and heating equipment, n.s.k.	469.3	288.5	249.5	260.0	322.8	528.5	251.3	152.4
3586-	Measuring and dispensing pumps	916.7	783.7	731.2	743.4	577.5	590.7	265.6	183.4
35860	Measuring and dispensing pumps	916.7	783.7	731.2	743.4	577.5	590.7	265.6	183.4
3589-	Service industry machinery, n.e.c.	3 926.3	3 207.4	3 048.8	2 885.1	2 538.9	2 550.4	1 687.6	864.4
35891	Commercial cooking and food warming equipment	1 092.1	924.2	936.0	803.9	641.4	609.0	386.0	217.0
35892	Service industry machines, n.e.c., and parts	2 138.1	1 863.0	1 719.9	1 605.0	1 446.8	1 568.4	1 059.2	496.5
35893	Commercial and industrial vacuum cleaners	271.6	279.5	261.3	263.5	247.5	192.9	109.4	62.7
35890	Service industry machinery, n.e.c., n.s.k.	424.4	140.7	131.7	212.8	203.2	180.1	132.9	88.2
3592-	Carburetors, pistons, rings, and valves	2 038.3	2 291.7	2 562.3	2 564.7	2 179.8	1 908.1	1 298.5	793.9
35921	Carburetors, new and rebuilt	926.7	1 378.7	1 581.5	1 514.8	1 349.4	1 028.7	642.0	355.3
35922	Pistons, piston rings, and piston pins (engine)	650.8	627.8	672.8	701.8	525.8	494.2	372.2	229.3
35923	Valves (engine intake and exhaust)	403.1	251.4	249.0	261.2	241.5	325.1	257.5	196.6
35920	Carburetors, pistons, rings, and valves, n.s.k.	57.7	33.7	59.0	87.0	63.1	60.1	26.9	12.7
3593-	Fluid power cylinders and actuators	1 706.4	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
35931	Hydraulic and pneumatic cylinders and related items, except aerospace	726.5	661.9	619.4	616.5	585.9	640.8	(NA)	(NA)
35932	Aerospace type hydraulic and pneumatic cylinders and related items	669.5	519.9	432.6	331.7	351.8	310.1	456.1	189.2
35933	Parts for hydraulic and pneumatic cylinders, and related items	293.6	168.8	150.6	112.8	144.9	456.1	(NA)	189.2
35930	Fluid power cylinders and actuators, n.s.k.	16.8	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3594-	Fluid power pumps and motors	1 458.7	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
35941	Fluid power pumps, motors, and hydrostatic transmission components	1 082.6	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
35942	Parts and attachments for fluid power pumps, motors, and hydrostatic transmissions	316.4	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
35940	Fluid power pumps and motors, n.s.k.	59.7	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3596-	Scales and balances, except laboratory	592.5	538.8	546.1	557.7	585.2	545.2	328.9	182.1
35961	Vehicle and industrial scales	250.3					207.2	159.1	83.6
35962	Retail, commercial, household, and mailing scales	192.9					223.3	108.9	67.3
35963	Parts, attachments, and accessories for scales and balances	95.7	538.8	546.1	557.7	585.2	84.9	44.4	18.3
35960	Scales and balances, except laboratory, n.s.k.	53.6					29.8	16.5	12.9
3599-	Industrial and commercial machinery, n.e.c.	12 788.1	⁵⁷¹² 856.7	⁵⁷¹² 413.1	⁵⁷¹¹ 787.7	⁵⁷¹⁰ 696.7	⁵⁷¹⁰ 602.0	⁵⁷¹⁵ 984.9	⁵⁷³ 174.1
35994	Miscellaneous machinery products	1 803.7	1 562.0	1 624.0	1 814.2	1 659.2	1 582.4	676.9	442.5
35995	Receipts for machine shop job work (machining of material owned by others)	6 704.5	8 035.1	7 688.3	6 673.3	5 434.2	5 594.5	3 338.1	1 425.8
35990	Industrial and commercial machinery, n.e.c., n.s.k.	4 279.8	⁵⁷³ 259.6	⁵⁷³ 100.8	⁵⁷³ 300.2	⁵⁷³ 603.3	⁵⁷³ 425.1	⁵⁷¹ 969.9	⁵⁷¹ 305.8
3612-	Transformers	3 136.9	3 071.0	3 045.0	2 964.5	2 806.8	2 772.6	2 117.8	1 436.1
36122	Power and distribution transformers	1 694.8	1 798.8	1 816.6	1 724.6	1 534.1	1 554.0	1 320.9	913.9
36123	Specialty transformers except fluorescent lamp ballast	273.8	⁵⁸⁶ 33.2	⁵⁸⁶ 86.0	⁵⁸⁶ 562.6	⁵⁸⁴ 82.4	⁵⁸⁵ 45.1	⁵⁸³ 42.8	⁵⁸² 25.3
36124	Fluorescent lamp ballasts	414.5	408.6	407.9	397.8	345.0	312.1	210.7	160.6
36126	Commercial, institutional, and industrial general-purpose transformers	232.7	(⁵⁸)	(⁵⁸)	(⁵⁸)	(⁵⁸)	(⁵⁸)	(⁵⁸)	(⁵⁸)
36127	Power regulators, boosters, and other transformers	277.8	164.0	189.2	206.6	318.3	243.2	168.1	111.4
36120	Transformers, n.s.k.	243.4	66.4	45.3	72.9	127.1	118.2	75.3	24.9
3613-	Switchgear and switchboard apparatus	4 597.6	5 308.9	5 414.1	5 525.6	4 793.7	4 760.6	(NA)	(NA)
36132	Power circuit breakers, all voltages	390.3	370.0	417.3	437.3	407.0	394.6	261.2	182.7
36133	Low voltage panelboards and distribution boards	1 536.4	1 828.9	1 788.8	1 787.0	1 408.3	1 299.5	878.2	539.0
36134	Fuses and fuse equipment, less than 2300 volts	359.2	351.1	350.7	365.0	361.7	280.6	201.6	99.7
36135	Molded case circuit breakers, 1000 volts or less	900.1	918.5	960.9	1 001.0	815.7	711.1	492.0	283.0
36136	Duct, including plug-in units, 1000 volts or less	131.6	142.6	153.1	132.0	135.3	162.5	88.5	65.7
36139	Switchgear, except ducts and relays	1 030.1	1 079.3	1 087.9	1 098.7	1 012.3	1 230.5	(NA)	(NA)
36130	Switchgear and switchboard apparatus, n.s.k.	249.9	201.0	190.8	173.2	210.0	184.8	179.3	68.2
3621-	Motors and generators	6 982.9	7 091.0	7 127.1	7 177.0	6 259.1	6 724.6	4 976.2	2 635.7
36211	Fractional horsepower motors	3 479.0	3 365.0	3 534.8	3 319.0	2 829.4	2 518.7	1 956.3	1 137.7
36212	Integral horsepower motors and generators	1 293.5	1 301.2	1 173.6	1 235.2	1 107.8	1 454.2	1 163.0	567.7
36213	Land transportation motors and generators	233.1	365.9	448.6	433.9	309.7	460.2	205.7	106.3
36214	Prime mover generator sets	787.7	756.8	723.4	793.8	720.5	961.5	643.9	247.3
36217	Fractional motor generator sets	237.9	211.8	288.3	316.2	319.7	264.5	274.5	228.8
36218	Integral motor generator sets	296.8	294.8	299.2	341.2	351.4	379.3	288.1	122.9
36219	Parts for motors and generators	535.0	702.9	566.9	655.5	418.6	510.6	354.0	188.6
36210	Motors and generators, n.s.k.	119.9	92.6	92.4	82.3	202.2	175.6	90.7	36.4
3624-	Carbon and graphite products	1 196.2	1 023.3	1 062.1	1 133.4	938.8	900.9	663.0	335.9
36241	Electrodes	551.5	521.0	589.6	465.1	440.5	362.0	136.9	136.9
36249	Carbon and graphite products, n.e.c.	587.7	487.2	515.0	512.9	447.9	433.6	293.1	193.8
36240	Carbon and graphite products, n.s.k.	56.9	15.1	19.0	30.9	25.8	26.8	7.9	5.2
3625-	Relays and industrial controls	6 040.3	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
36251	Relays for electronic circuitry, industrial control, overload, and switchgear type	927.0	⁵⁸¹ 411.2	⁵⁸¹ 512.6	⁵⁸¹ 584.6	⁵⁸¹ 145.9	⁵⁸¹ 146.8	(NA)	(NA)
36252	Specific purpose industrial controls	1 755.0	1 814.3	1 872.5	1 900.3	1 534.4	1 406.7	(NA)	(NA)
36253	General purpose industrial controls	2 368.0	2 322.9	2 268.8	2 412.7	1 906.8	2 171.8	(NA)	(NA)
36254	Parts for industrial controls and motor-control accessories	440.9	(⁵⁹)	(⁵⁹)	(⁵⁹)	(⁵⁹)	(⁵⁹)	(NA)	(NA)
36250	Relays and industrial controls, n.s.k.	549.4	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3629-	Electrical industrial apparatus, n.e.c.	1 163.7	1 133.7	1 179.2	1 123.3	1 031.3	1 003.1	699.1	442.9
36291	Capacitors for industrial use	136.9	181.6	209.7	176.0	174.4	190.0	154.8	112.4
36292	Rectifying apparatus	581.9	521.0	550.3	539.3	495.3	524.8	310.2	152.6
36293	Electrical equipment for industrial use, n.e.c.	259.5	294.8	315.8	298.5	279.4	213.0	182.2	145.9
36290	Electrical industrial apparatus, n.e.c., n.s.k.	185.4	136.4	103.5	109.5	82.3	75.3	51.9	32.0
3631-	Household cooking equipment	3 232.5	3 103.9	3 218.5	3 404.3	2 998.4	2 346.3	1 818.8	1 027.0
36311	Electric ranges, ovens, and surface units	1 999.1	1 926.0	2 106.6	2 370.6	2 045.4	1 543.2	1 232.5	582.8
36313	Gas ranges, ovens, surface cooking units	678.2	682.3	590.3	555.7	504.0	418.8	349.1	440.5
36314	Other household ranges and cooking equipment	538.2	474.3	502.6	456.8	430.4	370.6	215.8	3.7
36310	Household cooking equipment, n.s.k.	17.0	21.3	19.0	21.2	18.5	13.7	21.4	3.7
3632-	Household refrigerators and freezers	3 322.1	3 186.4	2 998.1	2 989.7	2 662.2	2 201.7	2 005.6	1 419.4
36321	Household mechanical refrigerators	3 004.5	2 844.4	2 639.3	2 569.9	2 253.4	1 786.9	1 644.4	⁵⁰¹ 207.8
36322	Food freezers, household	230.1	200.7	250.4	276.3	308.2	311.2	296.0	⁵⁰¹ 199.8
36323	Parts for household refrigerators and freezers	76.9	103.0	97.3	133.4	95.0	92.0	61.8	(⁶⁰)
36320	Household refrigerators and freezers, n.s.k.	10.6	8.3	11.1	10.0	5.7	11.6	3.4	11.8
3633-	Household laundry equipment	2 790.5	2 786.1	2 580.0	2 459.0	2 153.6	1 800.2	1 697.3	1 289.9
36330	Household laundry machines, including coin and noncoin	2 790.5	2 786.1	2 580.0	2 459.0	2 153.6	1 800.2	1 697.3	1 289.9

See footnotes at end of table.

Table 1. Historical Statistics for Product Classes—Value Shipped by All Producers: 1987 and Earlier Years—Con.

[Million dollars. Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 product code	Product class	1987	1986 ¹	1985 ¹	1984 ¹	1983 ¹	1982	1977	1972
3634-	Electric housewares and fans	2 589.1	2 694.4	2 835.5	2 997.8	2 895.8	2 845.6	2 304.0	1 448.0
36341	Electric fans, except industrial type	492.6	452.7	484.3	564.4	558.1	592.3	257.0	127.7
36345	Small electric household appliances, except fans	1 806.8	1 934.8	2 029.1	2 121.7	2 043.6	1 977.3	1 846.2	1 185.9
36349	Parts and attachments for small household electric appliances	190.7	232.8	247.0	248.2	223.9	210.6	148.4	79.0
36340	Electric housewares and fans, n.s.k.	99.0	74.1	75.1	63.5	70.2	65.4	52.4	55.4
3635-	Household vacuum cleaners	1 290.6	1 287.8	1 351.2	1 172.8	1 013.0	905.8	710.4	439.2
36350	Household vacuum cleaners, including parts and attachments	1 290.6	1 287.8	1 351.2	1 172.8	1 013.0	905.8	710.4	439.2
3639-	Household appliances, n.e.c.	2 284.7	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
36391	Household water heaters, electric	388.9	417.6	388.6	377.6	362.4	300.8	222.5	119.9
36392	Household water heaters, except electric	541.5	558.1	513.1	476.3	386.1	390.5	281.6	179.5
36395	Household appliances, n.e.c., and parts for household appliances, n.e.c. ⁶¹	1 309.0	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
36390	Household appliances, n.e.c., n.s.k.	45.4	34.8	30.7	23.2	24.6	21.6	17.3	12.8
3641-	Electric lamps (bulbs and tubes)	2 988.3	(NA)	(NA)	(NA)	(NA)	2 278.7	1 806.8	1 182.4
36411	Electric lamp bulbs and tubes	2 723.6	⁶²² 671.0	⁶²² 702.1	⁶²² 623.7	⁶²² 341.5	1 977.2	1 571.7	1 082.3
36412	Electric lamp (bulbs and tubes) components	197.2	(NA)	(NA)	(NA)	(NA)	252.8	176.6	113.3
36410	Electric lamps (bulbs and tubes), n.s.k.	67.5	(⁶²)	(⁶²)	(⁶²)	(⁶²)	48.7	58.5	6.8
3643-	Current-carrying wiring devices	3 864.0	3 494.3	3 529.1	3 456.6	3 082.6	2 761.4	1 824.9	1 206.8
36431	Lampholders	218.6	213.4	199.2	213.4	166.8	154.7		
36432	Convenience and power outlets	296.5	266.3	254.2	241.9	218.5	169.5		
36433	Switches for electrical circuitry	1 404.8	1 284.2	1 270.8	1 249.8	1 058.5	965.5		
36434	Metal contacts	165.1	168.4	184.4	164.7	181.4	164.3	1 824.9	1 206.8
36435	Wire connectors for electrical circuitry	815.6	767.3	788.7	750.6	670.9	591.6		
36436	Current-carrying wiring devices, n.e.c.	800.8	688.3	696.9	670.3	594.8	569.5		
36430	Current-carrying wiring devices, n.s.k.	162.5	106.4	134.9	177.6	191.6	146.3		
3644-	Noncurrent-carrying wiring devices	2 798.0	2 534.9	2 469.1	2 252.9	2 125.6	2 092.3	1 315.5	832.7
36441	Pole and transmission line hardware	391.9	367.3	391.5	357.4	387.4	415.5	276.2	222.3
36442	Electrical conduit and conduit fittings	1 471.1	1 244.2	1 192.8	1 105.7	1 008.8	1 021.3	634.4	393.7
36443	Noncurrent-carrying wiring devices and supplies	902.3	866.5	816.3	727.7	656.2	574.6	342.7	195.9
36440	Noncurrent-carrying wiring devices, n.s.k.	32.7	56.9	68.5	62.1	73.2	70.9	62.2	20.8
3645-	Residential lighting fixtures	1 772.1	1 474.3	1 494.3	1 503.7	1 461.2	1 289.7	974.6	746.1
36451	Residential lighting fixtures, except portable	894.4	831.1	764.6	684.3	570.6	469.8	461.0	291.9
36457	Portable residential lighting fixtures	576.7	566.8	647.2	664.0	690.6	628.9	389.6	320.9
36450	Residential lighting fixtures, n.s.k.	301.0	76.5	82.4	155.4	200.0	191.0	124.0	133.3
3646-	Commercial lighting fixtures	2 644.2	2 538.9	2 301.6	2 086.4	1 778.1	1 720.8	935.0	701.8
36462	Commercial and institutional lighting fixtures	2 076.7	2 029.1	1 813.2	1 661.5	1 393.3	1 279.2	653.6	527.2
36463	Industrial type lighting fixtures	403.3	401.8	408.6	359.9	301.3	361.8	243.0	162.6
36460	Commercial lighting fixtures, n.s.k.	164.4	108.0	79.8	65.0	83.5	79.8	38.4	12.0
3647-	Vehicular lighting equipment	1 366.3	1 210.3	1 015.6	934.8	847.3	668.3	646.1	358.1
36470	Vehicular lighting equipment	1 366.3	1 210.3	1 015.6	934.8	847.3	668.3	646.1	358.1
3648-	Lighting equipment, n.e.c.	1 700.7	1 795.7	1 602.3	1 353.0	1 177.0	1 170.3	674.7	488.0
36485	Outdoor lighting equipment	966.1	932.4	902.9	788.8	674.2	706.5	392.0	316.5
36489	Electric and nonelectric lighting equipment, n.e.c.	626.7	789.0	597.6	484.1	422.6	383.0	222.4	164.7
36480	Lighting equipment, n.e.c., n.s.k.	107.8	74.4	101.9	82.0	80.2	80.8	60.3	6.8
3651-	Radio receivers, television sets, phonographs, speakers, and related equipment	5 925.3	6 327.4	6 316.9	6 952.1	5 922.3	5 415.1	4 730.8	3 609.7
36511	Home, portable, and automobile radios	474.5	649.7	743.7	1 276.9	1 037.2	783.4	811.6	754.5
36512	Television receivers	3 784.4	4 266.4	4 333.3	4 307.0	3 500.8	3 386.0	2 450.9	2 148.7
36514	Consumer high fidelity components	287.0	(S)	(S)	217.7	359.4	312.0	558.3	373.4
36515	Speaker systems, microphones, etc.	981.3	912.4	839.4	948.1	874.7	783.9	753.9	249.2
36510	Radio receivers, television sets, phonographs, speakers, and related equipment, n.s.k.	398.1	279.8	249.5	202.3	150.3	149.8	156.1	83.9
3652-	Phonograph records and prerecorded tapes and discs	1 859.4	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
36520	Phonograph records, prerecorded audio tapes and discs	1 859.4	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3661-	Telephone and telegraph apparatus	16 528.5	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
36611	Telephone switching and switchboard equipment	7 561.1	7 315.2	7 720.7	5 878.8	4 845.3	4 569.4	2 827.1	1 568.1
36613	Carrier line equipment and modems, including auxiliary sets	5 091.1	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
36614	Telephone and telegraph (wire) apparatus, n.e.c.	3 548.5	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
36610	Telephone and telegraph apparatus, n.s.k.	327.8	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3663-	Radio and television communications equipment	13 255.9	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
36631	Communication systems and equipment, except broadcast	11 600.6	11 133.8	10 768.9	9 444.5	8 031.1	6 995.7	3 344.4	(NA)
36632	Broadcast, studio, and related electronic equipment	1 568.8	1 547.3	1 562.8	1 503.0	1 425.3	1 591.4	568.4	(NA)
36630	Radio and television communications equipment, n.s.k.	86.5	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3669-	Communications equipment, n.e.c.	2 126.0	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
36691	Alarm systems	1 261.2	1 017.7	1 159.2	1 101.9	876.9	827.9	(NA)	(NA)
36692	Traffic control equipment	427.9	466.7	454.0	460.1	509.6	418.3	(NA)	(NA)
36693	Intercommunication equipment	290.3	202.8	175.0	232.4	171.1	163.8	851.9	336.2
36690	Communications equipment, n.e.c., n.s.k.	146.5	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3671-	Electron tubes, all types	2 329.3	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
36713	Transmittal, industrial, and special purpose electron tubes, except x-ray	1 114.9	1 122.3	1 195.4	1 167.8	1 054.6	962.1	544.6	366.2
36714	Receiving type electron tubes, including cathode ray picture tubes	1 012.7	975.7	892.1	936.1	994.3	873.0	707.5	823.2
36715	Electron tube parts	180.1	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
36710	Electron tubes, n.s.k.	21.6	10.7	9.8	18.0	21.4	19.1	17.4	(NA)
3672-	Printed circuit boards	4 813.9	⁶³³ 404.7	⁶³³ 349.9	⁶³³ 646.8	⁶³² 678.9	⁶³² 288.9	(NA)	(NA)
36720	Printed circuit boards	4 813.9	⁶³³ 404.7	⁶³³ 349.9	⁶³³ 646.8	⁶³² 678.9	⁶³² 288.9	(NA)	(NA)
3674-	Semiconductors and related devices	17 928.8	14 929.6	15 253.2	17 819.4	12 800.6	11 215.4	4 532.3	2 360.8
36741	Integrated microcircuits	13 300.1	10 925.4	10 871.9	13 484.3	8 646.5	7 298.4	2 697.1	1 267.8
36742	Transistors	755.6	696.9	681.4	797.4	601.8	596.1	462.6	413.6
36743	Diodes and rectifiers	692.4	671.7	700.4	686.1	572.2	506.2	414.9	300.8
36749	Semiconductor and related devices, n.e.c.	2 586.4	2 303.2	2 568.6	2 542.9	2 484.3	2 334.8	835.8	337.2
36740	Semiconductors and related devices, n.s.k.	594.2	332.4	431.0	308.8	495.7	479.9	122.0	41.4
3675-	Electronic capacitors	1 307.2	1 254.2	1 334.7	1 582.7	1 293.3	1 207.1	736.1	454.4
36750	Capacitors for electronic circuitry	1 307.2	1 254.2	1 334.7	1 582.7	1 293.3	1 207.1	736.1	454.4
3676-	Electronic resistors	860.2	913.4	951.9	942.7	748.4	758.3	583.0	438.1
36760	Resistors for electronic circuitry	860.2	913.4	951.9	942.7	748.4	758.3	583.0	438.1
3677-	Electronic coils and transformers	1 184.9	1 071.0	1 221.2	1 127.6	1 046.5	924.6	605.8	385.3
36770	Coils, transformers, reactors, and chokes	1 184.9	1 071.0	1 221.2	1 127.6	1 046.5	924.6	605.8	385.3
3678-	Connectors for electronic circuitry	3 731.4	3 198.6	3 047.0	3 270.0	2 724.4	2 353.3	986.0	523.6

See footnotes at end of table.

Table 1. Historical Statistics for Product Classes—Value Shipped by All Producers: 1987 and Earlier Years—Con.

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1987 product code	Product class	1987	1986 ¹	1985 ¹	1984 ¹	1983 ¹	1982	1977	1972
3678-	Connectors for electronic circuitry—Con.								
36781	Coaxial (rf) connectors	465.0	345.8	332.2	269.6	228.9	223.3	986.0	523.6
36782	Cylindrical connectors	579.3	502.9	472.4	439.0	425.6	411.7		
36783	Rack and panel (rectangular) connectors	493.4	448.7	361.2	470.5	465.8	401.2		
36784	Printed circuit connectors	1 024.9	721.6	732.9	690.7	593.1	464.0		
36785	Other connectors for electronic circuitry, n.e.c.	1 057.7	1 099.5	1 076.7	1 321.4	881.1	740.0		
36780	Connectors for electronic circuitry, n.s.k.	111.2	80.2	71.6	78.9	130.0	113.1		
3679-	Electronic components, n.e.c.	14 563.0	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
36791	Crystals, filters, piezoelectric, and other related devices	623.5	542.7	520.0	556.5	536.0	429.8	(NA)	(NA)
36793	Microwave components and devices	1 188.6	1 105.8	966.1	856.6	773.4	794.5	(NA)	(NA)
36795	Transducers, electrical/electronic input or output, n.e.c.	612.9	630.1	572.8	420.0	368.2	357.0	(NA)	(NA)
36796	Switches, mechanical, for electronic circuitry	745.9	541.6	601.7	553.0	552.1	468.6	(NA)	(NA)
36798	Complex components	5 538.8	3 288.6	3 368.4	3 062.2	2 805.3	2 655.9	(NA)	(NA)
36799	Electronic components, n.e.c.	4 261.7	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
36790	Electronic components, n.e.c., n.s.k.	1 591.6	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3691-	Storage batteries	3 194.7	2 842.2	2 671.1	2 793.7	2 514.9	2 347.4	1 911.0	952.7
36913	Storage batteries, lead acid type, 1.5 cu ft or .042 cu m and smaller	2 259.5	2 117.6	1 958.1	2 082.1	1 862.2	1 757.8	1 458.1	929.1
36914	Storage batteries, lead acid type, larger than 1.5 cu ft or .042 cu m	418.4	379.7	364.4	342.0	293.7	301.8	233.8	
36915	Storage batteries, except lead acid	340.4	297.0	298.4	309.9	293.0	228.9	164.3	
36910	Storage batteries, n.s.k.	176.3	48.0	50.2	59.7	65.9	58.9	54.8	23.6
3692-	Primary batteries, dry and wet	1 919.3	1 619.4	1 551.4	1 390.7	1 147.3	1 066.4	623.9	316.7
36920	Primary batteries, dry and wet	1 919.3	1 619.4	1 551.4	1 390.7	1 147.3	1 066.4	623.9	316.7
3694-	Engine electrical equipment	6 337.9	5 774.0	5 493.1	5 280.2	3 856.1	3 007.8	2 748.8	1 781.0
36941	Ignition harness and cable sets	755.4	757.3	629.3	566.3	521.1	319.0	252.8	112.8
36942	Alternators, generators, and regulators	868.0	808.3	877.6	840.9	742.5	584.9	631.7	382.1
36943	Cranking motors (starters)	717.9	702.0	705.1	693.4	627.8	483.5	464.3	313.7
36944	Spark plugs	650.7	462.3	461.0	504.8	566.7	525.8	419.6	290.3
36947	Complete engine electrical equipment, n.e.c.	2 516.5	2 575.8	2 387.0	2 212.2	929.1	633.8	594.7	411.8
36949	Parts for engine electrical and/or electronic equipment	471.7	312.0	296.8	333.7	330.7	324.1	310.0	225.5
36940	Engine electrical equipment, n.s.k.	357.7	156.3	136.3	128.9	138.3	136.8	75.6	44.8
3695-	Magnetic and optical recording media	3 778.8	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
36950	Magnetic and optical recording media (unrecorded)	3 778.8	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3699-	Electrical equipment and supplies, n.e.c.	5 525.1	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
36991	Electronic teaching machines, teaching aids, trainers, and simulators, including kits	1 210.2	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
36992	Laser systems and equipment, except communication	907.1	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
36995	Ultrasonic equipment, except medical and dental	88.0	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
36996	Apparatus wire and cordage manufactured from purchased insulated wire	246.7	297.3	278.2	228.6	222.8	171.0	132.3	111.5
36997	Electronic systems and equipment, n.e.c.	1 539.7	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
36998	Electrical products, n.e.c.	784.9	(NA)	(NA)	(NA)	(NA)	562.4	278.9	(NA)
36990	Electrical equipment and supplies, n.e.c., n.s.k.	748.4	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3700-	Motor vehicles and car bodies	130 856.8	123 951.6	119 632.1	112 358.4	90 935.3	66 705.6	72 979.1	41 045.9
37111	Passenger cars and chassis for sale separately	79 853.3	82 002.6	75 996.7	70 729.0	60 853.4	42 902.3	47 798.9	29 246.2
37112	Trucks, truck tractors, and truck and bus chassis (chassis of own manufacture)	47 701.1	39 892.0	40 781.4	36 621.1	24 858.7	19 295.5	21 543.5	9 566.1
37113	Bus and fire fighting vehicles (chassis of own manufacture)	1 198.2	(D)	(D)	(D)	913.9	893.5	3 636.7	2 233.6
37114	Combat vehicles and wheeled tactical vehicles or carriers	(D)	(D)	(D)	(D)	(D)	(D)		
37115	Passenger car bodies	(D)	(D)	(D)	(D)	(D)	(D)		
37110	Motor vehicles and car bodies, n.s.k.	(D)	(D)	(D)	(D)	(D)	(D)		
3713-	Truck and bus bodies	4 482.4	3 557.5	3 411.7	3 095.5	2 808.9	2 304.4	1 880.9	934.4
37131	Truck, bus, and other vehicle bodies	2 735.4	2 486.2	2 427.7	2 158.3	2 156.8	1 672.6	1 326.5	624.2
37132	Complete vehicles produced on purchased chassis	1 158.5	886.7	823.8	784.1	505.1	523.8	316.7	193.9
37130	Truck and bus bodies, n.s.k.	588.5	184.6	160.2	153.1	147.0	108.0	237.7	116.3
3714-	Motor vehicle parts and accessories	60 816.0	57 272.0	58 383.7	55 804.7	46 775.7	38 414.2	37 841.8	19 417.0
37142	Gasoline engines and gasoline engine parts for motor vehicles, new	14 550.3	13 778.4	13 261.8	12 219.4	11 008.6	8 274.1	36 735.4	18 766.8
37144	Filters for internal combustion engines and motor vehicles, new	1 684.7	1 579.6	1 483.9	1 494.8	961.5	1 028.9		
37145	Exhaust system parts, new	2 579.1	2 685.2	2 426.4	2 279.5	2 135.5	1 672.2		
37146	Drive train components, new, except wheels and brakes	15 820.6	13 417.0	13 938.4	14 696.9	12 496.2	9 798.9		
37147	Motor vehicle wheels, new	1 372.8	1 289.9	1 289.2	1 167.4	1 135.9	815.4		
37148	Brake parts and assemblies, new	3 876.6	3 309.4	3 490.8	3 486.7	2 162.1	2 211.0	1 800.9	1 079.0
37149	All other motor vehicle parts and accessories, new, n.e.c.	16 928.6	18 671.9	20 023.5	17 944.9	14 792.0	12 709.5		
3714A	Rebuilt parts for motor vehicles, excluding carburetors and engine electrical equipment	1 156.5	1 269.7	1 268.0	1 242.2	1 022.4	890.4	592.9	365.6
37140	Motor vehicle parts and accessories, n.s.k.	2 846.6	1 271.0	1 201.7	1 272.8	1 061.5	1 013.9	513.5	284.6
3715-	Truck trailers	3 138.1	2 613.0	2 960.0	3 253.8	1 950.2	1 667.5	1 680.0	1 079.0
37151	Truck trailers and chassis, with axle rating of 10,000 lb or more	2 821.4	2 468.2	2 818.4	3 107.3	1 831.0	1 525.1	1 807.9	964.4
37152	Truck trailers and chassis, with axle rating of less than 10,000 lb	132.1	39.3	40.5	52.3	48.5	78.3	41.3	67.5
37150	Truck trailers, n.s.k.	184.6	105.5	101.1	94.3	70.7	63.7	84.8	47.1
3716-	Motor homes produced on purchased chassis	2 373.5	1 667.6	1 668.0	1 911.4	1 892.8	1 035.7	1 494.6	509.6
37160	Motor homes built on purchased chassis	2 373.5	1 667.6	1 668.0	1 911.4	1 892.8	1 035.7	1 494.6	509.6
3721-	Aircraft	36 002.8	34 626.2	31 288.8	25 878.0	26 377.4	24 235.1	12 052.6	7 538.2
37211	Military aircraft	16 862.3	17 727.5	16 884.0	14 087.1	11 995.5	9 834.5	4 579.6	2 802.9
37215	Civilian aircraft	12 533.7	12 334.4	10 530.7	7 978.3	10 343.6	8 769.4	4 706.1	3 261.5
37217	Modification, conversion, and overhaul of previously accepted aircraft	3 473.1	2 686.5	2 425.2	2 434.6	2 291.3	2 783.4	747.2	373.9
37218	Aeronautical services on complete aircraft, n.e.c.	2 731.8	1 845.9	1 419.0	1 343.6	1 705.6	2 817.1	1 988.2	1 067.1
37210	Aircraft, n.s.k.	401.8	31.8	29.8	34.4	41.5	30.7	31.7	32.8
3724-	Aircraft engines and engine parts	18 821.9	17 151.2	14 209.4	12 641.0	11 516.3	11 640.8	4 994.6	3 069.7
37241	Aircraft engines for military aircraft	4 205.6	(D)	(D)	(D)	(D)	(D)	1 047.9	437.1
37242	Aircraft engines for civilian aircraft	2 806.3	2 814.7	2 470.0	2 432.8	2 274.9	2 142.6	937.0	609.2
37243	Aeronautical services on aircraft engines	1 951.0	(D)	(D)	(D)	(D)	(D)	660.8	692.1
37244	Aircraft engine parts and accessories	9 504.2	8 683.1	7 334.6	6 425.8	5 758.6	5 725.5	2 308.5	1 306.7
37240	Aircraft engines and engine parts, n.s.k.	354.9	77.6	71.2	81.2	83.9	79.4	40.4	24.6
3728-	Aircraft parts and auxiliary equipment, n.e.c.	19 528.9	19 693.9	17 385.5	15 227.4	13 171.3	10 789.1	5 761.5	3 436.9
37281	Aircraft parts and auxiliary equipment	15 817.8	16 707.1	15 295.8	14 029.6	11 998.2	9 862.4	5 436.8	3 227.4
37282	Aircraft propellers and helicopter rotors	724.1	297.5	244.1	197.0	222.7	191.0		
37283	Research and development on aircraft parts	2 347.5	2 427.4	1 601.1	711.0	629.4	432.2		
37280	Aircraft parts and auxiliary equipment, n.e.c., n.s.k.	639.6	262.0	244.5	289.8	321.0	303.5	163.2	110.1
3731-	Ship building and repairing	8 343.1	8 913.2	9 482.8	9 471.2	9 342.0	10 654.5	6 270.3	3 200.7
37311	Nonpropelled ships, new construction	108.1	351.0	302.3	380.9	509.9	1 336.6	491.1	361.9
37312	Self-propelled ships, U.S. military, new construction	4 748.5	4 961.9	5 089.3	4 904.1	4 219.4	4 094.5	2 211.7	1 100.0
37313	Self-propelled ships, nonmilitary, new construction	497.1	624.7	804.8	806.3	1 321.4	1 872.0	1 917.3	816.1
37314	Ship repair, military	1 907.6	2 007.9	2 311.4	1 641.0	1 688.7	1 571.2	718.0	386.5
37316	Ship repair, nonmilitary	796.7	846.7	851.9	1 630.5	1 419.5	1 592.2	789.1	484.2

See footnotes at end of table.

Table 1. Historical Statistics for Product Classes—Value Shipped by All Producers: 1987 and Earlier Years—Con.

[Million dollars. Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 product code	Product class	1987	1986 ¹	1985 ¹	1984 ¹	1983 ¹	1982	1977	1972
3731- 37310	Ship building and repairing—Con. Ship building and repairing, n.s.k.	285.0	120.9	123.1	108.5	183.1	188.0	143.2	52.1
3732- 37322	Boat building and repairing Outboard motorboats	5 218.6 1 143.6	3 998.8 759.3	3 387.9 650.5	3 322.1 657.1	2 593.6 449.1	2 307.4 345.0	1 822.1 297.7	1 031.1 233.9
37323	Inboard motorboats	1 364.7	1 022.1	779.6	748.8	580.8	522.3	354.1	380.9
37324	Inboard-outdrive boats	1 481.0	1 156.2	912.3	691.6	530.6	459.9	367.3	
37327	Boats, n.e.c. (sailboats, rowboats, canoes, etc.)	283.4	309.2	388.2	524.3	403.0	368.8	282.1	130.4
37328	Boat repair, military and nonmilitary	209.0	322.1	291.8	260.9	284.1	271.2	173.2	74.3
37320	Boat building and repairing, n.s.k.	736.9	430.0	365.5	439.3	346.0	340.1	347.8	211.6
3743- 37431	Railroad equipment Locomotives, both new and rebuilt, and parts	2 138.6 818.7	2 106.1 1 620.6	2 295.4 1 702.7	2 671.4 1 985.5	1 946.0 1 253.8	2 878.9 2 152.0	4 001.9 3 055.8	2 284.2 1 759.4
37432	Passenger and freight train cars, new, excluding parts	582.0							
37433	Street, subway, trolley, and rapid transit cars, all rebuilt railcars, and parts for all railcars	661.3	438.4	536.7	623.4	632.8	663.7	899.1	501.2
37430	Railroad equipment, n.s.k.	76.6	47.1	56.0	62.5	59.4	63.1	47.0	23.6
3751- 37511	Motorcycles, bicycles, and parts Bicycles and parts	1 152.4 536.1	1 113.9 560.3	1 127.2 543.1	1 262.8 573.6	1 151.4 596.3	1 143.1 601.6	847.3 490.4	540.6 396.8
37512	Motorcycles, motorbikes, motor scooters, mopeds, and parts	495.3	483.0	524.2	633.8	492.1	480.8	286.1	112.3
37510	Motorcycles, bicycles, and parts, n.s.k.	121.0	70.6	60.0	55.3	63.0	60.8	70.7	31.5
3761- 37611	Guided missiles and space vehicles Complete guided missiles (excluding propulsion systems)	16 012.3 3 262.4	13 189.2 3 271.8	11 469.6 2 878.0	10 854.2 3 152.7	10 157.8 3 161.0	8 585.6 2 644.8	4 848.2 1 685.5	3 705.3 1 246.3
37612	Complete space vehicles (excluding propulsion systems)	5 172.0	3 544.7	3 597.4	2 668.5	2 619.3	2 010.7	822.1	754.9
37613	Research and development on complete guided missiles	3 295.8	3 010.1	2 208.1	1 895.0	1 856.2	1 504.0	871.5	660.8
37614	Research and development on complete space vehicles	974.6	1 171.5	965.0	1 053.7	872.7	987.2	918.1	599.7
37615	All other services on complete guided missiles and space vehicles	3 271.4	2 190.9	1 818.8	2 084.3	1 648.0	1 438.3	549.9	440.1
37610	Guided missiles and space vehicles, n.s.k.	36.2	.2	2.4	.2	.7	.5	1.1	3.5
3764- 37645	Space propulsion units and parts Complete missile or space vehicle engines and/or propulsion units	3 464.9 1 846.0	3 131.2 1 516.7	3 067.2 1 543.5	2 837.9 1 531.1	2 542.6 1 362.1	2 199.1 960.7	930.1 370.6	740.3 434.6
37646	Research and development on complete missile or space vehicle engines and/or propulsion units	615.3	691.0	735.0	689.8	581.1	694.8	345.8	143.4
37647	Services on complete missile or space vehicle engines and/or propulsion units, n.e.c.	149.2	149.4	138.2	196.9	277.2	238.0	105.0	115.0
37648	Missile and space vehicle engine and/or propulsion unit parts and accessories ..	816.5	772.4	647.6	417.3	319.3	301.5	105.6	47.1
37640	Space propulsion units and parts, n.s.k.	38.0	1.7	3.0	2.8	2.8	4.2	3.1	.2
3769- 37692	Space vehicle equipment, n.e.c. Missile and space vehicle components, parts, and subassemblies, n.e.c.	3 354.4 2 328.9	3 114.9 2 200.9	3 204.3 2 107.3	3 661.6 1 812.7	2 463.7 1 243.1	2 573.9 1 161.0	882.4 420.0	825.4 418.7
37694	Research and development on missile and space vehicle parts and components, n.e.c.	990.2	903.2	1 077.9	1 835.3	1 213.3	1 403.3	455.2	406.7
37690	Space vehicle equipment, n.e.c., n.s.k.	34.4	10.9	19.2	13.6	7.3	9.6	7.2	-
3792- 37921	Travel trailers and campers Travel trailers	1 871.0 1 182.9	1 486.8 870.0	1 421.2 815.8	1 350.3 805.6	1 298.8 800.0	1 088.1 628.0	1 477.6 882.2	1 276.5 619.9
37922	Camping trailers, campers, pickup covers, and parts	510.1	499.2	486.5	408.3	382.6	340.4	426.2	273.3
37920	Travel trailers and campers, n.s.k.	178.1	117.5	118.9	136.4	116.2	119.7	169.2	383.3
3795- 37950	Tanks and tank components Tanks and tank components	3 016.9 3 016.9	2 548.0 2 548.0	3 356.0 3 356.0	3 837.5 3 837.5	3 753.6 3 753.6	2 680.5 2 680.5	1 015.1 1 015.1	285.1 285.1
3799- 37993	Transportation equipment, n.e.c. Golf carts and industrial in-plant personnel carriers, self-propelled, and parts	1 576.3 239.9	1 394.9 267.5	1 209.5 216.8	1 030.3 201.2	1 045.1 163.1	954.3 156.8	700.3 108.2	753.4 54.1
37996	Automobile and light truck trailers	454.2	423.0	386.3	343.3	275.2	272.0		
37999	Transportation equipment, n.e.c., including all-terrain vehicles	558.0	560.7	490.1	365.6	527.3	453.2	510.7	639.8
37990	Transportation equipment, n.e.c., n.s.k.	324.2	143.7	116.3	120.2	79.4	72.2	81.4	59.5
3812- 38121	Search, detection, navigation, guidance, aeronautical and nautical systems, instruments, and equipment Aeronautical, nautical, and navigational instruments, not sending or receiving radio signals	34 016.9 2 267.6	(NA) 2 210.1	(NA) 1 838.3	(NA) 1 546.0	(NA) 1 639.6	(NA) 1 418.7	(NA) 804.6	(NA) 573.7
38122	Search, detection, navigation, and guidance systems and equipment	30 886.3	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
38120	Search, detection, navigation, guidance, aeronautical, and nautical systems, instruments, and equipment, n.s.k.	863.0	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3821- 38210	Laboratory apparatus and furniture Laboratory apparatus and furniture	1 618.8 1 618.8	(NA) (NA)	(NA) (NA)	(NA) (NA)	(NA) (NA)	(NA) (NA)	(NA) (NA)	(NA) (NA)
3822- 38220	Environmental controls Automatic controls for regulating residential and commercial environments and appliances	2 024.6 2 024.6	2 095.7 2 095.7	2 046.1 2 046.1	2 029.6 2 029.6	1 754.3 1 754.3	1 544.5 1 544.5	1 106.4 1 106.4	658.1 658.1
3823- 38230	Process control instruments Process control instruments	4 370.9 4 370.9	4 321.5 4 321.5	4 453.6 4 453.6	4 114.8 4 114.8	3 718.4 3 718.4	3 915.1 3 915.1	2 061.1 2 061.1	794.7 794.7
3824- 38242	Fluid meters and counting devices Integrating and totalizing meters for gas and liquids	1 133.1 609.0	992.8 544.1	958.0 555.3	860.2 459.2	829.3 470.4	787.1 519.6	634.3 344.0	327.4 207.7
38243	Counting devices	219.3	170.9	182.1	201.5	183.5	162.0	147.0	48.8
38244	Motor vehicle instruments	241.2	245.0	191.0	165.1	146.9	76.2	123.2	70.1
38240	Fluid meters and counting devices, n.s.k.	63.6	32.8	29.7	34.4	28.4	29.3	20.1	.8
3825- 38251	Instruments to measure electricity Integrating instruments, electrical	7 612.3 399.8	6 560.0 416.8	7 260.8 426.6	7 364.0 448.2	6 143.9 368.8	5 575.6 363.2	2 566.2 223.5	1 329.7 169.5
38252	Test equipment for testing electrical, radio and communication circuits, and motors	6 116.8	5 279.5	5 962.3	5 928.7	5 061.0	4 455.2	1 784.9	869.0
38253	Instruments to measure electricity, n.e.c.	671.0	608.4	705.3	517.3	556.7	556.7	429.9	223.4
38250	Instruments to measure electricity, n.s.k.	424.7	246.7	263.4	281.8	196.8	200.5	127.9	67.8
3826- 38260	Analytical instruments Analytical and scientific instruments, except optical	3 156.6 3 156.6	(NA) (NA)	(NA) (NA)	(NA) (NA)	(NA) (NA)	(NA) (NA)	(NA) (NA)	(NA) (NA)
3827- 38271	Optical instruments and lenses Sighting, tracking, and fire control equipment, optical type	1 990.2 729.4	(NA) 531.7	(NA) 624.3	(NA) 565.2	(NA) 515.3	(NA) 505.4	(NA) 227.3	(NA) 83.1
38272	Binoculars and astronomical instruments	36.3							
38273	Optical instruments and lenses, n.e.c.	1 169.6	1 326.3	1 401.8	1 406.5	1 033.0	922.8	390.0	(NA)
38270	Optical instruments and lenses, n.s.k.	54.8	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3829- 38291	Measuring and controlling devices, n.e.c. Aircraft engine instruments, except flight	3 389.3 510.1	(NA) 534.0	(NA) 428.3	(NA) 355.5	(NA) 327.3	(NA) 311.0	(NA) 120.1	(NA) 74.5
38292	Physical properties and kinematic testing and inspection equipment	906.4	756.4	721.1	676.1	542.0	635.2	276.6	106.3
38294	Nuclear radiation detection and monitoring instruments	645.0	640.9	604.7	546.5	584.2	596.4	344.2	198.2
38295	Commercial, geophysical, meteorological, and general purpose instruments and equipment	891.5	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
38296	Surveying and drafting instruments and associated equipment	230.2	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
38290	Measuring and controlling devices, n.e.c., n.s.k.	206.2	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

See footnotes at end of table.

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1987 product code	Product class	1987	1986 ¹	1985 ¹	1984 ¹	1983 ¹	1982	1977	1972
3841- 38411 38412 38410	Surgical and medical instruments ----- Surgical and medical instruments and apparatus----- Hospital furniture----- Surgical and medical instruments, n.s.k.-----	7 231.7 6 063.2 416.4 752.1	5 252.9 4 676.3 265.8 310.8	4 951.9 4 461.9 228.4 261.6	4 599.6 4 124.9 255.5 219.2	4 592.1 3 985.5 271.7 335.0	4 271.9 3 686.1 270.0 315.8	1 891.3 1 506.7 206.7 177.9	984.2 984.2
3842- 38421 38423 38424 38420	Surgical appliances and supplies ----- Surgical, orthopedic, prosthetic, and therapeutic appliances and supplies----- Personal industrial safety devices----- Electronic hearing aids----- Surgical appliances and supplies, n.s.k.-----	7 981.3 5 778.5 1 030.6 266.4 905.8	7 194.0 5 676.1 997.0 210.0 310.9	6 911.2 5 439.7 1 027.8 179.6 264.2	6 015.4 4 590.7 1 020.2 144.2 260.4	5 402.0 4 076.6 942.7 118.1 264.7	5 018.8 3 785.7 874.2 109.2 249.5	2 413.0 1 773.0 403.1 51.0 178.8	1 142.1 782.0 226.0 50.0 84.1
3843- 38431 38432 38430	Dental equipment and supplies ----- Dental professional equipment and supplies----- Dental laboratory equipment and supplies----- Dental equipment and supplies, n.s.k.-----	1 241.3 651.6 382.3 207.4	1 100.9 720.5 303.8 76.6	1 041.6 656.8 307.0 77.8	1 023.1 651.6 296.5 74.9	954.9 619.0 260.1 75.8	957.0 567.9 268.8 120.4	660.7 660.7	352.3 352.3
3844- 38440	X-ray apparatus and tubes ----- Irradiation (ionizing radiation) equipment-----	1 556.8 1 556.8	1 600.3 1 600.3	1 727.8 1 727.8	1 946.6 1 946.6	1 492.6 1 492.6	1 355.9 1 355.9	664.6 664.6	(NA) (NA)
3845- 38450	Electromedical equipment ----- Electromedical equipment-----	3 513.3 3 513.3	2 885.6 2 885.6	2 866.1 2 866.1	2 835.0 2 835.0	2 524.4 2 524.4	2 478.3 2 478.3	897.8 897.8	766.0 766.0
3851- 38511 38514 38515 38516 38517 38510	Ophthalmic goods ----- Ophthalmic fronts and temples----- Glass ophthalmic focus lenses----- Plastics ophthalmic focus lenses----- Contact lenses----- Ophthalmic goods, n.e.c.----- Ophthalmic goods, n.s.k.-----	1 445.1 93.5 133.7 226.1 478.6 291.9 221.2	1 275.7 132.4 124.8 216.9 396.9 297.9 106.7	1 188.8 146.5 125.6 163.0 351.1 314.8 87.8	1 170.8 159.7 150.1 141.3 334.4 282.4 102.8	1 118.9 164.5 130.0 112.4 292.6 272.5 147.0	1 081.1 153.7 155.1 115.3 228.8 284.4 143.8	844.3 154.2 132.6 73.8 117.7 259.3 106.7	483.5 111.5 134.5 194.8 42.7
3861- 38611 38612 38613 38614 38615	Photographic equipment and supplies ----- Still picture equipment----- Photocopying equipment----- Motion picture equipment----- Microfilming, blueprinting, and whiteprinting equipment----- Photographic sensitized film and plates, silver halide type-----	15 324.3 995.3 (D) 188.6 382.9 4 545.2	14 603.1 1 080.7 (D) 178.2 411.6 4 395.2	14 951.5 1 153.4 (D) 199.4 450.9 4 272.7	15 954.4 1 122.0 4 810.8 192.8 501.3 4 296.4	14 900.1 1 239.7 (D) 218.3 463.1 4 234.9	14 990.4 1 473.3 (D) 203.2 466.0 4 154.7	9 217.5 925.8 (D) 178.2 240.2 2 587.3	5 255.4 616.5 (D) 191.6 137.5 1 427.6
38616 38617	Sensitized photographic paper and cloth, silver halide type----- Sensitized photographic film, plates, paper, and cloth, other than silver halide type-----	(D) 1 247.8	(D) 1 079.8	(D) 1 120.5	(D) 1 129.1	(D) 1 202.8	(D) 985.0	(D) 443.1	376.4 306.2
38618 38619 38610	Prepared photographic chemicals----- X-ray film and plates----- Photographic equipment and supplies, n.s.k.-----	1 224.8 (D) 757.0	1 160.2 (D) (D)	1 198.0 (D) (D)	1 050.3 (D) (D)	1 146.1 (D) (D)	966.8 (D) (D)	634.3 515.3 (D)	286.2 160.7
3873- 38731 38732 38730	Watches, clocks, watchcases, and parts ----- Watches, watchcases, movements or modules, and watch parts----- Clocks, timing mechanisms, time switches, clock movements, clock cases, and parts----- Watches, clocks, and watchcases, n.s.k.-----	1 151.9 429.1 597.9 124.9	1 045.5 49.8 507.6 55.9	853.0 62.9 495.7 52.2	1 013.9 72.0 505.3 57.4	975.6 460.4 458.3 57.0	1 121.8 586.8 475.1 60.0	1 332.0 367.9 (NA) 59.8	880.8 245.0 (NA) 20.7
3911- 39111 39113 39114 39110	Jewelry, precious metal ----- Jewelry, made of platinum metals and karat gold----- Jewelry, made of silver----- Other jewelry except costume----- Jewelry, precious metal, n.s.k.-----	3 858.3 2 527.1 199.9 269.8 861.5	3 217.7 2 517.6 (NA) (NA) 421.9	2 992.3 2 397.6 (NA) (NA) 329.8	3 003.9 2 379.4 (NA) (NA) 340.5	2 881.9 2 112.6 (NA) (NA) 351.0	2 823.2 2 076.5 (NA) (NA) 335.7	1 907.7 1 251.5 (NA) (NA) 303.2	981.8 656.7 (NA) (NA) 146.6
3914- 39141 39142 39140	Silverware and plated ware ----- Hollowware----- Flatware----- Silverware and plated ware, n.s.k.-----	424.2 196.5 185.7 42.0	341.1 189.8 124.5 26.7	395.2 214.1 149.8 31.2	432.1 242.2 165.6 24.4	442.1 207.8 217.4 16.9	489.3 208.2 266.1 15.1	403.2 175.2 193.2 34.7	317.5 154.3 153.3 9.9
3915- 39152 39153 39154 39150	Jewelers' materials and lapidary work ----- Lapidary work and diamond cutting and polishing----- Jewelers' findings and materials of precious metal----- Jewelers' findings and materials of base metal----- Jewelers' materials and lapidary work, n.s.k.-----	910.0 260.6 382.3 53.0 214.1	825.6 258.3 (NA) (NA) 108.4	772.9 200.8 (NA) (NA) 109.8	740.2 172.1 (NA) (NA) 117.4	785.6 215.7 (NA) (NA) 82.4	814.4 238.9 (NA) (NA) 81.0	726.0 305.6 (NA) (NA) 114.9	336.2 132.8 (NA) (NA) 60.8
3931- 39311 39312 39313 39314 39310	Musical instruments ----- Pianos----- Organs----- Piano and organ parts----- Other musical instruments and parts----- Musical instruments, n.s.k.-----	781.3 171.8 80.1 40.6 384.2 104.6	685.3 171.2 102.1 55.7 282.5 73.8	685.5 136.2 132.4 49.9 291.0 76.1	769.2 155.1 139.5 79.8 310.4 84.5	883.2 202.1 177.0 90.2 360.5 53.5	876.5 194.8 177.7 94.1 346.4 63.6	878.9 180.6 295.8 86.2 255.5 60.8	525.5 107.4 188.3 54.6 156.0 19.2
3942- 39420	Dolls and stuffed toys ----- Dolls and toy animals-----	305.4 305.4	248.0 248.0	309.0 309.0	612.5 612.5	554.2 554.2	523.6 523.6	508.2 508.2	277.9 277.9
3944- 39443 39444 39445 39446 39447 39440	Games, toys, and children's vehicles ----- Baby carriages and children's vehicles, except bicycles----- Toys, excluding games, hobbies, and electronic toys----- Hobbies and models----- Nonelectronic games----- Electronic games and toys----- Games, toys, and children's vehicles, n.s.k.-----	2 997.0 240.8 1 441.7 399.2 539.1 142.2 234.0	2 643.6 237.7 1 271.9 464.4 478.1 21.2 170.3	2 752.7 310.2 1 310.7 363.9 763.6 103.8 174.7	3 167.5 311.3 1 430.6 389.6 447.9 125.2 147.1	3 199.9 356.8 1 361.4 429.2 447.9 390.4 214.1	3 976.9 315.1 1 329.5 377.0 399.1 1 347.8 208.5	2 333.2 211.2 1 036.0 309.3 (NA) 612.0 164.6	1 500.7 126.1 934.0 (NA) (NA) (NA) 160.6
3949- 39491 39492 39493 39495 39496 39490	Sporting and athletic goods, n.e.c. ----- Fishing tackle and equipment----- Golf equipment----- Playground equipment----- Other sporting and athletic goods----- Gymnasium and exercise equipment----- Sporting and athletic goods, n.e.c., n.s.k.-----	4 349.4 407.5 963.6 195.9 1 574.3 602.9 605.3	3 395.0 353.6 856.1 (NA) 1 355.9 (NA) 258.4	3 242.1 327.3 664.1 (NA) 1 386.9 (NA) 217.2	3 284.2 339.9 651.0 (NA) 1 400.8 (NA) 180.1	3 126.7 331.6 655.5 (NA) 1 158.7 (NA) 302.6	3 160.8 341.9 644.0 (NA) 1 314.1 (NA) 329.4	2 216.9 270.1 385.1 (NA) 1 060.8 (NA) 243.4	1 538.8 167.7 276.7 (NA) (NA) (NA) 175.4
3951- 39511 39512 39513 39510	Pens and mechanical pencils ----- Ballpoint and roller pens----- Markers, fine point and broadtipped----- Other pens and pencils----- Pens and mechanical pencils, n.s.k.-----	919.0 418.8 226.5 243.2 30.5	858.0 421.3 239.2 171.7 25.8	802.4 400.4 196.6 179.0 26.4	845.5 389.1 183.9 234.6 38.0	769.1 366.6 171.1 204.4 29.0	773.8 383.5 156.9 204.7 28.7	562.9 562.9	311.7 311.7
3952- 39523 39524 39520	Lead pencils, crayons, and artists' materials ----- Wood-cased pencils, crayons, and chalk----- Artists' equipment----- Lead pencils, crayons, and chalk, n.s.k.-----	456.7 213.3 215.9 27.5	389.4 (NA) (NA) 27.8	363.1 (NA) (NA) 25.3	383.8 (NA) (NA) 25.8	381.6 (NA) (NA) 53.8	352.7 (NA) (NA) 23.7	268.1 (NA) (NA) 13.6	174.3 (NA) (NA) 9.8
3953- 39530	Marking devices ----- Hand stamps, stencils, and other marking devices-----	455.9 455.9	338.7 338.7	337.9 337.9	347.9 347.9	361.3 361.3	326.9 326.9	215.9 215.9	163.4 163.4

See footnotes at end of table.

Table 1. Historical Statistics for Product Classes—Value Shipped by All Producers: 1987 and Earlier Years—Con.

(Million dollars. Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes)

1987 product code	Product class	1987	1986 ¹	1985 ¹	1984 ¹	1983 ¹	1982	1977	1972
3955--	Carbon paper and inked ribbons -----	821.1	733.0	738.3	726.4	820.5	793.6	488.9	317.5
39551	Inked ribbons, all types-----	610.4	454.4	456.1	421.6	535.3	485.3	246.9	150.0
39552	Carbon paper, stencil paper, etc.-----	171.5	250.7	250.2	270.2	255.7	282.0	220.2	153.8
39550	Carbon paper and inked ribbons, n.s.k.-----	39.2	27.9	32.0	34.6	29.5	26.3	21.8	13.7
3961--	Costume jewelry -----	1 265.0	1 296.3	1 257.2	1 133.4	1 111.9	948.6	781.5	441.7
39610	Costume jewelry and costume novelties, except precious metal-----	1 265.0	1 296.3	1 257.2	1 133.4	1 111.9	948.6	781.5	441.7
3965--	Fasteners, buttons, needles, and pins -----	676.5	805.6	825.1	791.7	767.1	749.4	739.8	656.7
39651	Buttons and parts-----	166.9	181.4	173.9	164.1	163.0	142.5	106.2	103.1
39654	Zippers and slide fasteners-----	184.5	249.0	281.5	276.8	225.6	200.8	295.0	254.5
39656	Needles, pins, fasteners (except slide), and similar notions-----	260.8	330.9	329.4	311.6	335.2	364.4	278.1	265.7
39650	Fasteners, buttons, needles, and pins, n.s.k.-----	64.3	44.2	40.3	39.2	43.3	41.7	60.6	33.4
3991--	Brooms and brushes -----	856.3	809.1	786.9	863.6	792.0	763.7	620.8	391.8
39911	Brooms-----	117.5	185.4	169.1	154.7	128.9	134.2	83.0	60.5
39912	Paint and varnish brushes, rollers, and pads-----	236.2	217.7	184.9	254.0	214.6	223.0	184.5	112.6
39913	Other brushes-----	415.6	370.1	390.0	413.0	413.0	372.8	309.5	186.4
39910	Brooms and brushes, n.s.k.-----	87.0	35.9	42.8	41.8	35.4	33.7	43.8	32.3
3993--	Signs and advertising displays -----	3 885.7	3 473.6	3 367.0	3 234.8	2 630.6	2 549.3	1 606.9	1 089.2
39931	Electric signs-----	987.2	1 162.4	1 166.3	956.2	754.5	683.4	349.8	198.7
39932	Nonelectric signs-----	1 364.8	1 457.6	1 401.1	1 327.4	1 001.3	1 000.1	615.6	445.9
39933	Advertising specialties-----	393.5	346.8	292.9	283.9	265.9	268.9	262.5	155.7
39930	Signs and advertising displays, n.s.k.-----	1 140.1	506.8	506.7	667.3	608.9	596.9	379.0	288.9
3995--	Burial caskets -----	798.1	723.5	712.1	695.8	691.4	672.8	494.8	387.9
39951	Metal caskets and coffins-----	497.9	442.8	430.2	422.6	453.6	429.5	298.1	211.2
39952	Wood caskets and coffins-----	160.2	148.4	141.5	127.5	115.5	115.1	85.6	68.7
39953	Other caskets and coffins and metal vaults-----	75.6	85.6	89.0	84.7	80.3	87.7	79.2	67.8
39950	Burial caskets, n.s.k.-----	64.4	46.7	51.5	61.1	42.0	40.5	31.9	40.2
3996--	Hard surface floor coverings, n.e.c. -----	1 240.6	1 093.5	970.1	951.6	825.0	535.4	561.3	300.3
39960	Resilient floor covering-----	1 240.6	1 093.5	970.1	951.6	825.0	535.4	561.3	300.3
3999--	Manufacturing industries, n.e.c.⁶⁴ -----	4 500.1	3 184.3	3 048.3	3 389.6	3 783.8	4 119.8	2 749.1	1 557.1
39991	Chemical fire-extinguishing equipment and parts-----	401.9	367.4	349.1	306.4	283.2	333.5	216.8	125.7
39992	Coin-operated amusement machines-----	333.7	239.6	231.9	299.9	526.6	1 086.9	242.2	91.1
39993	Matches-----	94.1	72.6	83.8	88.1	80.6	97.1	105.5	81.6
39994	Candles-----	202.1	258.1	272.9	275.7	268.2	257.6	160.3	100.8
39996	Furs, dressed and dyed-----	66.6	78.2	75.9	76.7	112.2	96.7	76.2	42.3
39997	Umbrellas, parasols, and canes-----	49.4	33.6	38.9	60.3	66.4	64.9	36.0	37.8
39998	Feathers, plumes, and artificial flowers-----	344.3	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
39999	Miscellaneous fabricated products, n.e.c.-----	1 422.0	1 065.4	1 055.5	1 237.6	1 295.0	1 070.6	1 137.7	658.5
39990	Miscellaneous fabricated products, n.e.c., n.s.k.-----	1 586.1	762.1	640.5	754.8	882.7	874.6	614.2	317.5

¹Figures are estimates derived from a representative sample of manufacturing establishments. Standard errors associated with estimates are published in annual survey of manufactures publications for this period.

²Data relate to shipments rather than production.

³For 1987, dried and dehydrated potatoes packaged with other ingredients were moved to product class 20997.

⁴For 1987, frozen bakery products, except bread, were moved to new industry 2053, and frozen doughs and batters were moved to industry group 204.

⁵Industry 2064 was newly defined for 1987. Product categories 20642, 20643, 20649, and 20640 are identical to prior product categories 20652, 20653, 20659, and 20650, respectively.

⁶Industry 2066 was revised for 1987. New product category 20669 is composed of old product categories 20668 and 20998.

⁷Industry 2068 was newly defined for 1987. It is equivalent to product category 20657 in prior years.

⁸Women's and misses' knee-length socks were moved from industry 2251 to industry 2252 in the 1987 SIC revision.

⁹Value not specified by kind (n.s.k.) is included with product classes for these years.

¹⁰Data are only for products made in cut-and-sew establishments. Value for output of knitting mills is shown in Industry 2253, Knit Outerwear Mills and Industry 2254, Knit Underwear Mills.

¹¹Industry definition is new for 1987 Census of Manufactures. 1987 product class 23215 and its contract and commission receipts, product code 23219 15, are now included in 1987 industry 2322 under product class 2322 and product code 23229 12.

¹²Industry definition is new for 1987 Census of Manufactures. Industry 2325 is a combination of 1972 SIC-based product code 23271 11 and 1972 SIC-based product class 23283.

¹³Industry definition is new for 1987 Census of Manufactures. Industry 2326 is a combination of 1972 SIC-based product classes 23281 and 23284.

¹⁴Industry 2353 is newly defined for 1987. It is composed of 1982 industries 2351 and 2352.

¹⁵Even though the end item is the same, some products are classified differently according to the materials and processes used to make them (e.g., Women's and Children's Underwear, made from woven fabrics or purchased knit fabrics (code 23412 00) versus Women's and Children's Underwear, made from yarns or from fabric knit in the same establishment (code 22542 00)). See MC87-I-22B for 2253 and 2254 product data that relate to products in this report.

¹⁶Industry 2369 is newly defined for 1987. It is composed of 1982 industries 2363 and 2369.

¹⁷Data for Printing on Garments and Apparel Accessories; Stamped Art Goods are now classified in product class 23964.

¹⁸Data for 23950 were combined with that for 23960 for 1982.

¹⁹For 1977, prefinished medium density fiberboard (MDF) made from purchased MDF was included with product class 24933.

²⁰For 1987, data for product class 24990 are not completely comparable to 1986 and prior years because of 1987 SIC revision to industry 2499.

²¹Prior to 1987, product class 25425 00 was included under Industry 2599, Furniture and Fixtures, N.E.C.

²²For 1977 and 1972, product code 26210 is included with product code 2621A.

²³For 1977 and 1972, data for product class 26795 were combined with data for product classes 26792 and 26793.

²⁴For 1977 and 1972, product classes 27419, 2741A, and 2741B were combined.

²⁵For 1982, product classes 27591, 27593, 27594, 27595, and 27596 included some printing by the flexographic process. Thus, 1987 data for letterpress and flexographic product classes may not be completely comparable with 1982 data.

²⁶Product class 2759A is new for 1987. No prior-year data are available.

²⁷For 1987, titanium pigment preparation (product code 28161 21) is included with product class 28162.

²⁸Figures for product classes 28241 and 28248 for 1986 and earlier years are not comparable to those for 1987 due to misclassification of products. Revisions to prior years are not available.

²⁹Data for 1987 and earlier years are not wholly comparable at the four-digit product code level due to 1987 SIC revisions which split old Industry 2831, Biological Products, into industries 2835 and 2836.

³⁰Figures for household bleaches for 1986 and earlier years may not be comparable to 1987 due to errors in reporting. Revisions to prior years are not available.

³¹Data for product class 32313 are included in product class 32113.

³²Data for 1972-based Product Class 34967, Steel Nails and Spikes, Not Made by Wire Drawers, are now reported in Product Class 33152, Steel Nails, Staples, Tacks, Spikes, and Brads. For 1982, the total value of shipments of establishments primarily producing steel nails and spikes (SIC 34967) was \$215.8 million.

³³Industry definition is new for 1987 Census of Manufactures.

³⁴Data for 1972-based product class 34967, Steel Nails and Spikes, Not Made by Wire Drawers, are now reported in Product Class 33152, Steel Nails, Staples, Tacks, Spikes, and Brads. Therefore, historical data are not comparable.

³⁵Product class 35195 is combined with product class 35197 to avoid disclosing data for individual companies.

³⁶For 1987, data for cultivators and weeder (secondary tillage equipment) are included with product class 3523C. For 1986 and prior years, data for cultivators and weeder (secondary tillage equipment) were included with product class 3523E.

³⁷For 1987, data for stalk shredders and cutters or rotary mowers are included with product class 3523E. For 1986 and prior years, data for stalk shredders and cutters or rotary mowers were included with product class 3523C.

³⁸For 1972, product class 35230 included data not specified by kind for industry 3524.

³⁹Product class structure of industry changed significantly between 1976 and 1977; 1977 data are not comparable with data for prior years.

⁴⁰Data for product class 3531E included parts sold separately.

⁴¹For 1982, data for attachments (sold separately) for tractors in product classes 3531A, 3531B, and 3531C were included in product class 3531M.

⁴²For 1976 and prior years, data for portable water well and blast hole drilling rigs were contained in either product class 3531K or 3533A. Since 1977, data for these rigs are contained in product class 3533A only.

⁴³Data included construction machinery, n.e.c., n.s.k., and attachments (sold separately) for tractors in product classes 3531A, 3531B, and 3531C.

⁴⁴Since 1982, parts for portable drilling rigs are included with product class 3533A. For 1981 and prior years, parts for portable drilling rigs were included with product class 35339.

⁴⁵For 1976 and prior years, data for product classes 35353 and 35355 were combined.

Table 1. Historical Statistics for Product Classes—Value Shipped by All Producers: 1987 and Earlier Years—Con.

⁴⁶For 1976 and prior years, data for product classes 35354 and 35356 were combined.

⁴⁷Data included automobile hoists (used on tow trucks).

⁴⁸For 1972, data for product classes 3541A, 3541B, and 3541C were included with product class 35418.

⁴⁹For 1986 and prior years, data for product classes 35451, 35454, and 35455 were collected and published as product classes 35451, 35453, and 35452, respectively.

⁵⁰Prior to 1977, chain saws and parts were classified in industry 3553. For 1977 and later years, chain saws and parts are classified in industry 3546. Before 1977, hydraulic and internal combustion engine driven handtools and parts (excluding chain saws and parts) were classified in industry 3546, but not collected separately.

⁵¹For 1982, data for product class 35485 excluded induction welding equipment.

⁵²For 1982, data for product class 35480 included only electric welding apparatus.

⁵³For 1982, data for product class 35490 included nonelectric welding equipment.

⁵⁴Data exclude pneumatic air motors and parts which accounted for less than 3 percent of this product class in 1982.

⁵⁵For 1977 and 1972, data for product class 35652 were not collected separately but included with product class 35651.

⁵⁶Data exclude parts for electric comfort heating equipment which accounted for approximately 2 percent of this product class in 1982.

⁵⁷Data include an insignificant amount of fluid power cylinder and actuators (SIC 3593) and may not be directly comparable to 1987 data.

⁵⁸Data for product class 36126 were included with product class 36123.

⁵⁹Data for product class 36254 were included with product class 36251.

⁶⁰For 1982, data for parts were included with data for complete machines.

⁶¹Product class definition is new for 1987 Census of Manufactures.

⁶²Data for product classes 36411 and 36410 were combined in annual survey of manufactures publications for this period.

⁶³Data are approximately 3 percent understated because estimates for administrative-record establishments are not available.

⁶⁴Industry definition is new for 1987 Census of Manufactures.

CHAPTER 4. Geographic Area Statistics

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Table 1. Statistics for All Manufacturing Establishments Including Auxiliaries by State: 1987 and Earlier Census Years

[Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and year	All establishments ^{1 2}		All employees ²		Production workers			Value added by manu- facture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expend- itures (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
United States ----- 1987 ..	368 897	126 294	18 950.3	475 651.0	12 242.7	24 300.6	251 432.6	1 165 746.8	1 319 803.1	2 475 901.0	78 647.8
----- 1982 ..	358 061	123 163	19 094.1	379 626.5	12 400.6	23 538.3	204 787.2	824 117.7	1 130 142.7	1 960 205.8	74 561.6
----- 1977 ..	359 928	118 699	19 590.1	264 013.1	13 691.0	26 686.7	157 163.7	585 165.6	782 417.7	1 358 526.4	47 459.0
----- 1972 ..	320 710	114 195	19 028.7	174 205.5	13 527.9	26 699.2	105 501.8	353 994.0	407 418.7	756 534.3	24 077.7
Alabama ----- 1987 ..	5 843	2 067	347.3	6 962.5	268.8	530.7	4 745.6	18 652.1	22 299.1	40 901.4	1 360.1
----- 1982 ..	5 528	1 968	329.6	5 234.4	253.6	479.8	3 598.3	12 045.7	17 535.5	29 794.3	1 540.2
----- 1977 ..	5 863	1 855	341.0	3 773.2	273.0	525.2	2 697.6	8 405.9	12 814.7	21 010.1	1 318.9
----- 1972 ..	4 984	1 630	322.6	2 396.8	262.2	519.3	1 730.8	5 064.8	11 239.5	11 239.5	355.1
Alaska ----- 1987 ..	427	106	11.1	271.7	8.4	16.7	191.4	834.0	1 892.6	2 710.7	68.6
----- 1982 ..	445	144	12.8	269.5	10.0	18.3	196.6	796.2	1 805.8	2 579.9	58.5
----- 1977 ..	429	128	11.4	166.0	9.3	16.9	122.7	504.2	767.2	1 250.3	178.1
----- 1972 ..	342	91	7.5	75.1	6.1	11.6	56.5	170.4	191.8	366.1	21.8
Arizona ----- 1987 ..	4 151	1 131	184.1	4 669.0	105.9	214.2	2 148.8	11 299.0	9 597.0	20 757.7	836.9
----- 1982 ..	3 407	854	149.8	3 036.9	86.7	165.2	1 423.4	6 162.4	6 726.3	12 907.2	765.2
----- 1977 ..	2 892	677	110.9	1 462.9	69.8	135.0	780.7	3 332.9	3 773.4	7 022.4	213.7
----- 1972 ..	2 037	597	93.9	855.1	62.3	121.1	481.5	1 879.6	2 233.7	4 041.2	198.4
Arkansa ----- 1987 ..	3 390	1 210	205.5	3 814.6	161.7	326.3	2 651.6	10 826.9	14 680.3	25 307.6	891.5
----- 1982 ..	3 313	1 161	189.8	2 823.7	148.8	279.1	1 931.7	7 755.3	12 002.1	19 746.5	701.2
----- 1977 ..	3 595	1 101	197.1	1 932.4	160.6	310.4	1 400.7	4 881.6	7 554.1	12 276.1	470.1
----- 1972 ..	2 897	1 053	180.9	1 151.7	150.1	298.4	853.4	2 799.8	3 754.8	6 504.2	190.0
California ----- 1987 ..	49 930	15 702	2 104.3	57 147.8	1 240.2	2 432.9	25 697.0	132 637.5	121 049.4	252 728.8	8 571.7
----- 1982 ..	47 625	14 467	2 005.0	42 636.4	1 209.4	2 317.9	20 564.8	94 374.0	105 592.9	199 704.1	8 443.6
----- 1977 ..	45 289	12 883	1 751.5	24 671.5	1 142.6	2 224.2	13 150.5	54 862.4	66 881.2	120 895.8	3 385.4
----- 1972 ..	35 699	11 149	1 545.1	15 483.1	1 020.0	1 974.9	8 430.4	31 175.2	32 603.2	62 902.6	1 649.0
Colorado ----- 1987 ..	4 718	1 104	183.8	4 958.4	103.3	204.0	2 285.6	12 045.8	11 176.4	23 235.9	791.5
----- 1982 ..	4 406	1 167	191.4	3 983.2	109.8	207.5	1 876.7	8 056.8	9 958.6	17 963.1	892.2
----- 1977 ..	3 948	961	152.5	2 124.8	97.7	190.1	1 141.3	4 471.8	5 594.2	10 018.0	443.1
----- 1972 ..	2 841	834	132.6	1 297.8	89.0	176.7	769.7	2 504.3	3 319.7	5 792.9	228.8
Connecticut ----- 1987 ..	6 747	2 460	388.9	11 110.6	216.5	440.6	4 825.6	22 348.9	15 506.1	37 400.3	1 293.3
----- 1982 ..	6 693	2 537	424.4	9 059.6	245.0	478.8	4 095.0	16 373.4	13 697.3	30 066.5	1 054.2
----- 1977 ..	6 485	2 366	412.1	5 852.3	255.3	509.0	2 901.8	10 933.9	9 084.4	19 842.2	566.0
----- 1972 ..	5 836	2 231	399.3	3 860.0	258.2	520.9	2 068.7	6 828.3	5 384.6	12 121.0	331.6
Delaware ----- 1987 ..	673	262	66.6	2 090.8	32.8	65.2	760.0	3 866.0	6 926.1	10 729.7	276.9
----- 1982 ..	632	248	67.9	1 742.9	31.7	60.5	557.0	2 466.7	5 891.2	8 382.8	322.1
----- 1977 ..	619	231	66.5	1 140.6	32.3	63.0	409.9	1 595.7	3 635.3	5 208.7	148.2
----- 1972 ..	567	243	69.1	754.5	37.7	73.9	304.4	1 291.9	2 108.8	3 387.9	91.5
District of Columbia ----- 1987 ..	486	124	17.0	494.1	5.2	10.7	118.8	1 525.4	615.0	2 128.3	43.6
----- 1982 ..	514	127	16.7	393.7	6.4	12.0	125.3	928.6	606.4	1 537.1	55.1
----- 1977 ..	555	130	18.6	297.6	7.5	13.3	102.3	610.2	377.7	984.4	18.1
----- 1972 ..	564	135	19.4	220.0	9.4	16.5	96.7	389.0	250.7	630.9	18.9
Florida ----- 1987 ..	15 603	4 046	499.3	10 954.0	308.7	614.7	5 222.7	27 574.2	29 292.7	56 612.7	1 910.7
----- 1982 ..	13 723	3 599	454.4	7 773.2	292.2	566.6	3 955.8	18 111.8	20 610.8	38 683.3	1 960.6
----- 1977 ..	12 399	2 915	358.0	4 133.1	249.6	485.2	2 335.5	9 255.1	11 898.4	20 980.6	737.3
----- 1972 ..	10 275	2 893	342.9	2 750.3	242.0	481.5	1 580.8	5 786.8	6 276.8	11 957.7	463.0
Georgia ----- 1987 ..	9 187	3 527	569.9	11 933.1	409.4	820.1	7 239.9	33 708.1	42 271.2	75 709.2	2 471.5
----- 1982 ..	8 535	3 149	503.2	7 912.2	369.4	705.0	4 863.9	19 212.2	29 101.3	48 076.3	1 921.7
----- 1977 ..	8 623	2 906	484.7	5 124.5	376.2	740.6	3 404.4	12 548.8	20 365.4	32 856.4	1 143.4
----- 1972 ..	7 627	2 663	467.5	3 336.0	368.6	737.5	2 242.8	7 385.8	11 022.2	18 374.2	688.9
Hawaii ----- 1987 ..	1 022	225	22.2	440.2	15.2	28.8	254.2	1 405.3	2 048.8	3 447.9	102.0
----- 1982 ..	967	237	23.6	360.4	16.0	29.9	217.5	1 119.6	2 357.5	3 443.0	89.4
----- 1977 ..	949	231	25.0	276.8	17.4	31.3	160.5	785.5	1 176.1	1 974.0	44.4
----- 1972 ..	773	238	24.8	191.1	17.7	33.1	113.7	410.0	548.3	955.6	46.7
Idaho ----- 1987 ..	1 491	371	52.9	1 148.5	38.3	72.4	698.3	3 057.0	3 957.4	7 004.7	234.8
----- 1982 ..	1 405	354	47.6	864.8	34.0	62.6	545.2	2 076.5	3 222.5	5 369.6	147.3
----- 1977 ..	1 495	379	51.6	625.2	39.8	76.5	431.9	1 430.0	2 233.6	3 657.7	158.7
----- 1972 ..	1 190	350	43.0	339.9	34.3	66.0	244.6	820.8	1 257.4	2 069.0	74.9
Illinois ----- 1987 ..	18 404	7 188	989.6	26 234.7	609.3	1 227.5	13 401.4	63 350.1	69 064.7	132 204.3	4 425.8
----- 1982 ..	18 618	7 102	1 077.4	22 820.9	669.8	1 257.2	11 936.0	47 688.0	64 188.3	112 949.5	3 370.6
----- 1977 ..	19 517	7 441	1 286.2	18 740.8	857.8	1 676.7	10 756.5	40 279.1	53 342.1	93 081.3	2 661.5
----- 1972 ..	18 617	7 345	1 306.1	12 801.1	901.0	1 780.3	7 614.9	25 848.9	28 146.3	53 553.1	1 564.1
Indiana ----- 1987 ..	8 641	3 612	602.0	15 756.5	426.7	858.9	9 874.1	39 278.8	44 706.5	83 787.9	3 363.9
----- 1982 ..	7 960	3 184	585.1	12 559.3	406.0	759.1	7 821.4	25 747.0	36 762.3	63 331.9	2 232.7
----- 1977 ..	8 061	3 229	705.9	10 438.9	521.9	1 024.8	7 046.5	22 717.6	29 829.1	52 172.2	2 076.0
----- 1972 ..	7 354	3 491	703.9	6 881.5	526.1	1 041.7	4 640.8	14 111.6	15 327.1	29 167.7	907.3
Iowa ----- 1987 ..	3 569	1 259	206.1	4 971.1	140.1	277.5	3 043.4	14 469.0	21 003.8	35 408.6	834.2
----- 1982 ..	3 600	1 224	213.3	4 410.4	140.4	260.0	2 653.6	12 091.8	19 382.3	31 424.0	689.6
----- 1977 ..	3 783	1 245	240.3	3 382.5	170.6	331.7	2 191.3	8 684.4	14 943.6	23 514.9	677.8
----- 1972 ..	3 387	1 170	215.5	2 038.8	157.0	311.2	1 355.0	4 757.7	7 945.0	12 599.8	329.4
Kansas ----- 1987 ..	3 275	1 139	189.1	4 597.2	120.7	245.3	2 608.5	12 908.8	18 492.4	31 055.8	1 011.2
----- 1982 ..	3 235	1 103	170.6	3 322.8	112.8	217.9	1 957.8	8 436.5	18 104.1	26 753.4	613.3
----- 1977 ..	3 270	1 037	168.1	2 114.8	121.6	241.5	1 370.8	5 337.8	10 783.0	15 987.3	345.4
----- 1972 ..	2 839	957	137.0	1 181.1	101.3	202.5	782.8	2 915.4	5 237.8	8 062.5	199.2
Kentucky ----- 1987 ..	3 693	1 513	251.6	5 865.2	184.8	356.2	3 752.3	18 091.7	23 979.1	41 827.1	1 746.0
----- 1982 ..	3 502	1 354	246.6	4 368.8	173.8	319.7	2 874.0	11 819.7	17 662.0	29 638.6	996.8
----- 1977 ..	3 548	1 318	277.5	3 452.2	209.0	399.5	2 302.5	9 545.7	13 565.7	22 874.7	715.9
----- 1972 ..	3 167	1 259	258.7	2 160.0	204.4	392.9	1 479.8	5 682.1	6 794.6	12 360.0	380.0
Louisiana ----- 1987 ..	3 816	1 111	161.4	4 175.9	110.8	224.9	2 587.8	16 425.8	34 284.0	50 699.7	1 419.8
----- 1982 ..	4 107	1 335	202.0	4 304.2	142.4	281.1	2 730.6	11 754.6	44 843.5	57 058.1	2 561.9
----- 1977 ..	4 276	1 236	194.8	2 682.7	145.2	292.0	1 798.9	9 418.3	20 266.6	29 493.3	2 072.8
----- 1972 ..	3 651	1 133	179.4	1 601.4	134.3	274.6	1 072.1	4 273.4	7 014.1	11 265.0	568.2
Maine ----- 1987 ..	2 172	603	101.6	2 192.1	77.4	151.3	1 457.0	5 270.6	5 423.1	10 661.5	539.4
----- 1982 ..	2 009	616	110.2	1 774.9	86.4	165.8	1 236.8	4 037.8	4 634.9	8 649.1	510.3
----- 1977 ..	2 157	595	102.8	1 077.6	84.2	163.6	781.0	2 343.0	2 845.1	5 144.6	222.9
----- 1972 ..	2 075	590	100.0	699.4	82.6	162.2	512.9	1 383.4	1 503.9	2 879.4	138.9

See footnotes at end of table.

Table 1. **Statistics for All Manufacturing Establishments Including Auxiliaries by State: 1987 and Earlier Census Years—Con.**

[Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and year		All establishments ^{1 2}		All employees ²		Production workers			Value added by manu- facture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expend- itures (million dollars)
		Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
Maryland	1987--	4 244	1 474	230.4	5 955.7	139.6	273.5	2 994.3	14 020.0	14 009.9	28 009.4	875.2
	1982--	3 883	1 383	234.5	4 861.4	145.9	270.6	2 550.8	10 133.8	11 256.1	21 281.5	718.1
	1977--	3 937	1 351	243.2	3 419.5	162.9	311.6	1 976.0	7 115.6	8 908.4	15 930.4	513.8
	1972--	3 579	1 437	255.6	2 386.3	175.7	345.7	1 427.8	4 706.9	5 309.6	9 963.3	310.2
Massachusetts	1987--	11 006	4 184	591.3	15 211.3	348.3	690.5	7 018.9	35 769.7	27 358.3	62 793.7	2 169.0
	1982--	11 017	4 290	643.4	12 353.1	397.0	765.2	6 000.6	25 967.5	22 145.8	48 203.9	1 667.3
	1977--	11 133	4 054	613.4	7 818.8	407.9	791.9	4 199.2	16 348.6	14 075.4	30 144.2	952.8
	1972--	10 770	4 471	618.9	5 486.0	416.0	812.1	3 027.0	10 677.5	8 616.7	19 133.9	537.5
Michigan	1987--	16 010	5 745	980.1	30 627.8	635.5	1 300.7	17 393.0	60 258.6	86 313.4	146 338.8	4 793.5
	1982--	15 158	5 010	883.9	22 210.4	563.6	1 090.5	12 494.3	39 118.1	59 962.5	99 715.0	3 512.8
	1977--	15 627	5 380	1 115.9	20 054.0	789.4	1 626.3	12 720.6	37 566.0	56 775.9	93 757.1	3 739.2
	1972--	14 461	5 019	1 076.2	12 745.1	768.1	1 582.6	8 094.7	23 375.7	30 821.3	54 039.3	2 071.4
Minnesota	1987--	7 112	2 425	374.2	10 141.7	214.9	428.0	4 512.7	23 151.9	24 615.9	47 603.9	1 765.5
	1982--	6 775	2 216	351.6	7 453.5	200.6	376.2	3 428.4	15 366.9	19 853.5	35 321.3	1 195.5
	1977--	6 637	2 126	331.7	4 693.0	211.1	403.8	2 413.1	9 605.2	13 598.6	23 021.2	576.4
	1972--	5 698	1 930	302.2	2 889.0	196.1	382.8	1 555.1	5 523.8	7 443.4	12 901.3	305.5
Mississippi	1987--	3 318	1 249	218.9	3 827.3	171.4	337.4	2 620.6	10 502.6	13 949.8	24 380.6	647.7
	1982--	3 126	1 223	201.7	2 880.8	158.2	299.2	1 977.6	7 824.9	11 576.8	19 488.0	1 154.4
	1977--	3 289	1 147	219.4	2 061.5	177.9	348.1	1 477.3	5 619.3	7 279.4	12 765.8	470.8
	1972--	2 727	1 066	200.4	1 302.4	166.9	332.0	958.6	2 824.7	3 766.3	6 540.8	235.9
Missouri	1987--	7 290	2 580	418.8	10 390.0	264.5	519.0	5 401.6	25 916.7	33 891.0	59 889.3	1 620.1
	1982--	7 069	2 467	406.0	8 016.4	256.4	477.2	4 200.2	18 339.0	24 164.3	41 469.1	1 340.5
	1977--	7 355	2 430	433.3	5 709.1	299.1	572.4	3 408.5	13 087.0	20 098.8	33 162.5	780.9
	1972--	6 732	2 470	434.3	3 897.3	299.8	583.8	2 305.4	8 169.0	10 805.9	18 773.8	395.9
Montana	1987--	1 239	184	20.1	425.8	14.8	28.8	296.2	1 112.0	2 393.8	3 497.9	97.0
	1982--	1 090	176	20.2	379.1	14.6	27.0	265.0	722.7	2 954.5	3 677.4	74.6
	1977--	1 168	202	23.5	311.8	18.4	35.9	236.0	802.2	1 872.3	2 669.9	97.8
	1972--	943	206	21.4	184.6	17.1	33.6	137.7	462.5	1 129.6	1 596.7	75.8
Nebraska	1987--	1 876	631	90.7	1 937.6	64.2	128.8	1 211.9	5 819.2	10 336.9	16 076.2	317.9
	1982--	1 928	633	91.1	1 624.4	64.4	124.3	1 014.8	4 444.5	10 628.0	15 143.2	245.3
	1977--	1 965	626	87.7	1 075.4	62.8	124.0	680.9	2 867.1	5 864.0	8 713.4	175.1
	1972--	1 723	598	84.9	704.2	63.2	127.6	469.2	1 733.4	4 220.5	5 898.4	102.3
Nevada	1987--	975	241	23.7	521.4	15.8	30.9	299.6	1 279.3	1 209.4	2 470.4	114.0
	1982--	853	177	20.4	356.4	13.1	24.8	209.7	862.6	895.6	1 755.6	80.3
	1977--	729	147	15.0	191.6	10.0	19.3	113.4	495.2	461.0	942.0	46.4
	1972--	447	104	10.0	91.7	6.9	13.5	57.2	207.7	222.1	423.4	23.5
New Hampshire	1987--	2 328	735	107.9	2 508.7	71.5	141.6	1 426.8	8 188.6	4 351.1	12 214.2	339.8
	1982--	1 981	721	107.4	1 792.0	75.3	144.9	1 054.9	4 004.0	3 609.3	7 635.6	246.2
	1977--	1 825	623	95.3	1 029.0	72.0	138.0	645.3	2 174.7	1 893.7	4 032.3	162.0
	1972--	1 434	566	89.7	663.2	67.7	131.4	414.0	1 278.6	1 034.2	2 288.7	99.1
New Jersey	1987--	14 442	5 467	690.8	18 549.9	394.4	780.9	8 389.3	42 526.6	40 273.2	82 451.0	2 312.5
	1982--	15 126	5 756	754.0	15 845.0	440.4	842.7	7 206.7	31 654.8	38 430.8	70 418.7	2 064.5
	1977--	15 696	5 775	778.3	10 924.2	489.6	955.8	5 561.7	22 852.8	28 633.9	51 279.4	1 376.3
	1972--	13 790	5 918	836.1	8 107.2	546.6	1 070.9	4 353.7	16 408.9	16 149.8	32 409.1	940.1
New Mexico	1987--	1 322	284	34.7	713.3	23.7	47.3	432.5	1 652.9	2 502.5	4 226.4	196.4
	1982--	1 223	299	33.0	521.2	22.2	41.8	296.6	1 397.7	2 431.8	3 815.4	120.8
	1977--	1 323	258	29.0	296.9	20.9	39.5	183.8	733.5	1 289.4	2 009.2	75.0
	1972--	926	277	23.6	157.2	17.2	32.9	96.0	358.0	567.2	910.4	30.8
New York	1987--	29 608	9 500	1 278.7	33 915.8	723.3	1 403.5	14 408.2	80 033.3	66 098.6	145 656.5	4 296.5
	1982--	32 651	10 670	1 418.8	29 156.0	836.3	1 613.0	13 269.9	62 889.4	58 009.8	121 451.4	4 267.1
	1977--	36 578	11 425	1 509.9	20 876.1	958.1	1 827.5	10 418.8	44 289.8	42 441.9	86 216.4	2 530.2
	1972--	41 684	14 353	1 679.3	16 222.0	1 076.2	2 068.2	8 174.3	30 403.5	28 341.1	58 558.6	1 506.0
North Carolina	1987--	10 995	4 767	842.4	16 293.4	637.3	1 258.8	10 293.0	47 007.4	48 762.0	95 317.3	2 958.7
	1982--	10 134	4 379	799.1	11 723.5	605.3	1 116.9	7 302.2	28 510.2	35 689.9	64 250.5	2 588.6
	1977--	9 954	4 005	765.3	7 518.5	611.3	1 186.5	5 086.3	18 230.6	23 009.8	40 912.2	1 345.3
	1972--	8 632	3 794	743.7	4 929.1	604.0	1 211.0	3 427.3	11 014.5	13 296.7	24 123.9	986.8
North Dakota	1987--	627	139	15.4	310.4	10.4	20.4	180.1	979.0	1 616.6	2 574.0	47.0
	1982--	587	142	14.8	245.6	9.7	18.0	141.2	652.1	1 820.5	2 465.0	101.1
	1977--	571	145	13.8	162.3	9.2	17.7	97.2	473.3	842.7	1 312.9	53.0
	1972--	482	117	10.2	78.6	7.1	14.4	47.7	200.7	379.3	593.9	13.3
Ohio	1987--	17 544	6 882	1 100.2	30 765.2	713.4	1 447.9	17 490.4	71 707.4	87 237.8	158 559.9	4 742.2
	1982--	16 966	6 521	1 084.4	24 812.4	695.8	1 328.4	13 830.6	49 776.4	62 164.9	112 636.7	4 230.1
	1977--	17 354	6 728	1 331.2	20 356.0	924.4	1 838.5	12 907.5	43 054.7	52 736.3	95 234.7	2 790.7
	1972--	16 390	6 487	1 346.3	13 810.0	940.0	1 887.8	8 717.0	27 171.0	28 285.6	55 025.4	1 695.4
Oklahoma	1987--	3 728	1 018	151.2	3 629.3	104.8	207.0	2 195.6	9 856.9	14 288.8	24 073.9	538.4
	1982--	4 169	1 249	197.4	4 023.3	121.4	234.4	2 073.5	8 161.8	15 015.5	23 146.1	841.4
	1977--	3 818	1 067	164.4	2 050.9	110.4	214.3	1 164.3	4 662.3	8 048.4	12 564.5	485.8
	1972--	3 042	897	142.7	1 187.9	95.7	186.1	659.0	2 270.1	3 132.0	5 348.1	223.8
Oregon	1987--	6 353	1 643	202.9	4 767.2	144.3	280.0	2 948.6	11 610.3	13 831.1	25 351.7	735.4
	1982--	5 659	1 443	185.1	3 783.2	129.6	237.9	2 333.7	7 973.0	9 883.4	17 897.3	659.0
	1977--	5 716	1 580	202.4	2 760.							

See footnotes at end of table.

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Geographic area and year	All establishments ^{1 2}		All employees ²		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
South Dakota ----- 1987...	764	231	27.5	497.9	19.9	38.8	312.6	1 476.1	2 406.8	3 858.7	79.3
1982...	748	205	24.5	397.9	17.5	32.6	261.9	1 100.2	1 905.1	3 005.2	62.3
1977...	740	195	22.5	251.4	16.7	32.0	169.1	611.6	1 184.7	1 793.7	36.7
1972...	606	171	17.4	134.5	12.9	25.1	89.4	284.5	658.2	936.6	20.1
Tennessee ----- 1987...	6 864	2 799	484.9	9 869.2	359.2	707.4	6 282.6	27 049.7	30 819.7	57 752.9	1 904.7
1982...	6 417	2 617	461.6	7 377.7	337.5	629.8	4 602.9	17 841.6	22 634.9	40 795.2	2 061.5
1977...	6 487	2 477	489.8	5 218.7	375.7	720.3	3 481.2	12 663.4	16 318.9	28 752.0	961.1
1972...	5 647	2 291	467.4	3 351.7	367.0	725.3	2 295.1	7 662.0	8 635.7	16 129.3	540.0
Texas ----- 1987...	20 370	6 183	914.0	23 240.9	560.8	1 125.2	11 443.9	63 899.1	99 496.7	162 750.9	4 548.0
1982...	20 288	7 006	1 058.4	21 436.2	669.6	1 306.1	11 234.5	53 361.4	117 579.2	171 656.9	8 193.8
1977...	18 107	5 644	886.4	11 653.1	600.7	1 190.1	6 626.4	33 080.9	60 395.8	92 735.7	5 194.7
1972...	14 422	4 790	736.1	6 344.6	516.6	1 030.5	3 763.3	15 228.0	21 355.5	36 647.9	1 345.7
Utah ----- 1987...	2 083	611	88.8	2 073.1	54.8	107.6	1 002.3	4 882.9	5 468.9	10 286.7	403.5
1982...	1 962	579	83.2	1 538.8	54.2	103.0	837.0	3 455.1	5 423.4	8 960.0	327.6
1977...	1 748	494	70.2	867.2	48.8	92.3	522.3	1 974.0	3 172.9	5 092.8	393.6
1972...	1 358	430	56.6	486.2	38.8	73.7	286.9	1 068.7	1 584.9	2 632.0	67.9
Vermont ----- 1987...	1 262	333	48.5	1 140.0	30.6	58.3	551.6	2 543.1	2 201.8	4 752.7	334.4
1982...	1 104	310	46.8	862.7	30.0	56.2	433.8	2 036.8	1 682.6	3 730.4	270.9
1977...	1 030	298	41.5	498.0	28.7	55.9	270.1	1 050.1	1 175.9	2 189.3	93.0
1972...	860	274	36.9	311.4	26.1	52.2	176.3	576.0	639.2	1 229.2	36.8
Virginia ----- 1987...	6 137	2 230	429.2	9 740.1	305.3	600.3	5 728.2	26 857.3	25 453.9	51 902.1	1 542.7
1982...	5 568	2 036	391.1	6 649.0	287.4	541.1	4 191.7	17 255.6	19 662.3	36 802.7	1 522.9
1977...	5 519	1 879	395.2	4 442.4	302.0	581.8	2 916.8	10 882.0	13 233.5	23 988.6	953.0
1972...	4 837	1 768	375.4	2 826.0	293.2	582.9	1 902.1	6 177.5	6 716.7	12 823.5	585.8
Washington ----- 1987...	7 630	1 950	309.7	8 841.6	184.2	353.5	4 262.0	19 016.1	28 698.3	46 531.8	1 244.8
1982...	6 791	1 709	291.8	6 688.6	177.7	327.2	3 625.8	12 610.9	23 235.6	34 690.8	1 082.3
1977...	6 723	1 712	265.0	4 054.3	180.7	338.2	2 385.0	8 955.0	12 921.4	21 746.9	850.0
1972...	5 345	1 463	226.0	2 308.4	159.8	303.3	1 410.9	4 721.4	5 930.1	10 815.7	353.7
West Virginia ----- 1987...	1 619	488	83.8	2 107.6	58.8	115.4	1 312.3	5 404.4	5 980.0	11 560.8	434.8
1982...	1 662	559	95.8	2 007.0	65.2	121.5	1 233.0	4 049.2	5 761.0	9 868.8	393.7
1977...	1 857	583	117.0	1 620.5	89.2	170.9	1 124.3	3 880.2	4 881.5	8 705.9	402.3
1972...	1 733	606	120.8	1 097.6	92.7	181.8	765.4	2 646.7	2 389.3	5 021.9	216.0
Wisconsin ----- 1987...	9 157	3 460	514.0	12 763.4	349.9	693.6	7 615.5	31 653.0	38 051.0	69 595.8	2 027.4
1982...	8 682	3 197	496.8	10 201.4	328.7	621.2	5 992.0	22 553.2	29 489.8	52 457.8	1 547.2
1977...	8 678	3 163	535.0	7 317.8	381.0	745.4	4 697.1	16 606.0	22 362.9	38 725.3	1 184.4
1972...	7 845	2 861	500.5	4 722.3	360.5	720.5	2 062.7	9 443.3	11 962.9	21 245.5	535.3
Wyoming ----- 1987...	500	80	7.7	179.7	5.4	10.7	118.6	492.8	1 595.7	2 074.3	65.3
1982...	511	115	9.9	183.3	6.6	13.2	115.3	407.7	2 082.5	2 558.4	49.8
1977...	505	102	8.5	110.9	6.2	12.1	73.9	380.8	919.2	1 287.8	36.2
1972...	377	78	7.0	56.9	5.1	10.1	39.2	143.9	312.3	451.0	23.4

¹Includes establishments with payroll at any time during year.

²Includes auxiliaries (see appendixes).

³Aggregate of cost of materials and value of shipments includes extensive duplication, since products of some industries are used as materials by others (see appendixes).

Table 2. Summary Statistics by State: 1987

[Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	United States	Alabama	Alaska	Arizona	Arkansas	California	Colorado	Connecticut	Delaware
Companies ¹ ----- number...	310 341	5 249	381	3 926	3 040	45 600	4 431	6 206	592
All establishments ² ----- do...	368 897	5 843	427	4 151	3 390	49 930	4 718	6 747	673
With 1 to 19 employees ----- do...	242 603	3 776	321	3 020	2 180	34 228	3 614	4 287	411
With 20 to 99 employees ----- do...	89 291	1 262	76	880	719	11 967	829	1 761	169
With 100 employees or more ----- do...	37 003	805	30	251	491	3 735	275	699	93
Employment and labor costs:									
Employees ----- 1,000...	18 950.3	347.3	11.1	184.1	205.5	2 104.3	183.8	388.9	66.6
Compensation ----- mil dol...	575 404.8	8 575.7	329.4	5 609.7	4 665.5	69 023.4	6 000.3	13 211.7	2 387.8
Annual payroll ----- do...	475 651.0	6 962.5	271.7	4 669.0	3 814.6	57 147.8	4 958.4	11 110.6	2 090.8
Fringe benefits ----- do...	99 754.3	1 613.3	57.7	940.7	850.8	11 875.6	1 041.8	2 101.1	297.0
Social Security and other legally required payments ----- do...	41 153.8	651.6	31.6	384.7	377.3	5 008.2	425.4	893.7	108.0
Employer payments and other programs ----- do...	58 600.5	961.6	26.1	555.9	473.6	6 867.4	616.4	1 207.4	189.0
Production workers:									
Average for year ----- 1,000...	12 242.7	268.8	8.4	105.9	161.7	1 240.2	103.3	216.5	32.8
March ----- do...	12 102.8	264.6	6.4	104.6	157.8	1 220.4	101.8	217.9	32.7
May ----- do...	12 154.0	267.2	8.7	105.2	159.7	1 224.4	103.0	217.1	32.5
August ----- do...	12 279.3	270.4	12.0	106.6	163.9	1 261.5	103.9	213.0	32.8
November ----- do...	12 325.4	271.2	6.3	106.0	164.2	1 242.1	103.6	216.1	33.1
Hours ----- 1,000...	24 300.6	530.7	16.7	214.2	326.3	2 432.9	204.0	440.6	65.2
January to March ----- do...	5 958.8	128.7	3.1	52.1	78.9	593.0	50.1	110.1	16.7
April to June ----- do...	6 081.9	133.1	4.4	53.7	80.7	605.2	50.7	111.2	16.4
July to September ----- do...	6 080.5	133.7	6.0	54.4	83.2	620.6	51.4	107.1	16.0
October to December ----- do...	6 179.3	135.1	3.2	54.0	83.5	614.0	51.8	112.2	16.2
Wages ----- mil dol...	251 432.6	4 745.6	191.4	2 148.8	2 651.6	25 697.0	2 285.6	4 825.6	760.0
Value added by manufacture ----- do...	1 165 746.8	18 652.1	834.0	11 299.0	10 826.9	132 637.5	12 045.8	22 348.9	3 866.0

See footnotes at end of table.

Table 2. Summary Statistics by State: 1987—Con.

[Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendices]

Item	United States	Alabama	Alaska	Arizona	Arkansas	California	Colorado	Connecticut	Delaware
Cost of materials ³ mil dol.	1 319 803.1	22 299.1	1 892.6	9 597.0	14 680.3	121 049.4	11 176.4	15 506.1	6 926.1
Materials, parts, containers, etc., consumed..... do.	1 159 157.1	19 819.1	1 741.1	8 150.9	13 281.6	104 393.7	9 982.2	12 796.8	6 491.1
Resales..... do.	65 504.7	521.5	43.6	389.2	632.0	6 363.1	579.2	1 084.1	157.5
Fuels consumed ⁴ do.	20 879.2	544.3	63.0	107.2	245.4	1 517.8	117.0	206.5	82.2
Purchased electric energy..... do.	31 661.2	811.4	21.4	256.3	329.4	2 936.4	197.3	421.8	105.5
Contract work..... do.	42 601.6	602.8	23.6	693.3	192.0	5 838.4	300.7	996.9	89.8
Quantity of electric energy used for heat and power:									
Purchased..... mil kWh.....	697 232.7	19 672.6	363.8	4 826.7	6 728.4	41 372.2	4 719.4	6 225.3	2 498.8
Generated less sold..... do.	79 255.0	3 960.3	422.0	485.2	1 742.7	2 951.7	186.8	138.1	(D)
Value of shipments ³ mil dol.	2 475 901.0	40 901.4	2 710.7	20 757.7	25 307.6	252 728.8	23 235.9	37 400.3	10 729.7
Inventories by stage of fabrication:									
Beginning of year..... mil dol.	317 557.1	4 478.1	227.9	3 941.7	3 270.4	40 272.1	2 518.4	7 813.4	864.3
Finished goods..... do.	101 405.2	1 666.1	139.1	657.8	1 256.1	10 686.0	709.8	2 573.8	322.2
Work in process..... do.	111 848.6	1 261.3	13.1	2 345.6	723.0	18 768.8	900.2	3 072.0	215.2
Materials and supplies..... do.	104 303.4	1 550.7	75.8	938.4	1 291.2	10 167.3	908.4	2 167.6	327.0
End of year..... do.	332 613.9	4 678.1	244.7	4 070.0	3 602.6	41 483.9	2 548.0	8 208.6	976.7
Finished goods..... do.	104 963.9	1 666.9	150.9	673.5	1 399.9	11 014.5	727.6	2 771.5	311.7
Work in process..... do.	118 142.5	1 317.0	23.3	2 468.5	752.2	19 388.0	869.0	3 372.5	287.8
Materials and supplies..... do.	109 507.5	1 694.2	70.5	928.0	1 450.1	11 081.4	951.5	2 064.5	377.1
Gross book value of depreciable assets:									
Beginning of year..... mil dol.	867 985.2	19 171.8	1 435.5	7 348.0	8 461.8	77 550.7	8 196.8	12 669.8	3 321.0
New capital expenditures..... do.	78 647.8	1 360.1	68.6	836.9	891.5	8 571.7	791.5	1 293.3	276.9
Used capital expenditures..... do.	7 014.3	162.7	5.8	57.1	66.9	740.1	198.7	107.0	20.5
Retirements..... do.	31 989.6	438.6	24.9	379.6	266.8	2 875.1	368.6	547.2	52.3
End of year..... do.	921 657.8	20 256.1	1 485.0	7 862.4	9 153.3	83 987.3	8 818.4	13 523.0	3 566.1
Buildings and other structures:									
Beginning of year..... mil dol.	197 148.1	2 971.0	275.0	1 945.1	1 631.0	22 450.9	2 438.8	3 300.3	659.8
New capital expenditures..... do.	12 914.0	166.6	11.4	152.5	125.2	1 886.6	125.6	205.7	49.0
Used capital expenditures..... do.	1 847.8	37.8	1.6	19.5	14.2	275.3	41.5	28.3	4.6
Retirements..... do.	4 168.4	41.1	4.7	42.7	30.0	486.4	54.0	56.0	10.3
End of year..... do.	207 741.6	3 134.4	283.3	2 074.4	1 740.5	24 126.3	2 551.9	3 478.3	703.0
Machinery and equipment:									
Beginning of year..... mil dol.	670 836.8	16 200.8	1 160.5	5 402.8	6 830.8	55 099.8	5 758.0	9 369.5	2 661.2
New capital expenditures..... do.	65 733.7	1 193.4	57.2	684.4	766.3	6 685.1	665.9	1 087.7	228.0
Used capital expenditures..... do.	5 166.5	124.9	4.2	37.6	52.6	464.8	157.2	78.7	15.9
Retirements..... do.	27 821.4	397.5	20.2	336.8	236.9	2 388.8	314.6	491.2	42.0
End of year..... do.	713 916.2	17 121.7	1 201.7	5 788.0	7 412.9	59 861.0	6 266.1	10 044.7	2 863.1
Depreciation charges during 1987..... mil dol.	63 012.0	1 253.2	86.5	673.6	608.5	6 390.0	625.9	1 111.2	212.9
Buildings and other structures..... do.	9 183.5	134.7	14.8	95.8	81.8	1 147.1	106.8	162.4	33.7
Machinery and equipment..... do.	53 828.4	1 118.5	71.8	577.8	526.7	5 242.7	519.1	948.8	179.2
Rental payments..... mil dol.	15 621.7	166.3	15.9	169.7	100.9	2 862.7	175.8	395.8	23.4
Buildings and other structures..... do.	7 256.0	65.6	4.5	71.1	32.2	1 631.4	94.3	152.2	8.6
Machinery and equipment..... do.	8 365.7	100.7	11.4	98.6	68.7	1 231.4	81.5	243.6	14.7
Item	District of Columbia	Florida	Georgia	Hawaii	Idaho	Illinois	Indiana	Iowa	Kansas
Companies ¹ number.....	455	14 458	7 923	965	1 386	16 360	7 548	3 136	2 968
All establishments ² do.	486	15 603	9 187	1 022	1 491	18 404	8 641	3 569	3 275
With 1 to 19 employees..... do.	362	11 557	5 660	797	1 120	11 216	5 029	2 310	2 136
With 20 to 99 employees..... do.	105	3 152	2 227	184	263	5 117	2 442	839	824
With 100 employees or more..... do.	19	894	1 300	41	108	2 071	1 170	420	315
Employment and labor costs:									
Employees..... 1,000.....	17.0	499.3	569.9	22.2	52.9	989.6	602.0	206.1	189.1
Compensation..... mil dol.	581.1	13 166.9	14 260.7	534.9	1 383.3	31 806.2	19 605.4	6 190.4	5 680.0
Annual payroll..... do.	494.1	10 954.0	11 933.1	440.2	1 148.5	26 234.7	15 756.5	4 971.1	4 597.2
Fringe benefits..... do.	87.0	2 212.9	2 327.6	94.8	234.8	5 571.5	3 849.0	1 219.3	1 082.8
Social Security and other legally required payments..... do.	34.7	942.0	1 011.9	45.2	113.1	2 277.5	1 303.2	502.2	430.3
Employer payments and other programs..... do.	52.4	1 270.9	1 315.8	49.5	121.8	3 294.0	2 545.8	717.2	652.5
Production workers:									
Average for year..... 1,000.....	5.2	308.7	409.4	15.2	38.3	609.3	426.7	140.1	120.7
March..... do.	5.2	308.4	403.3	15.0	37.5	602.0	419.9	136.4	119.7
May..... do.	5.2	307.4	408.0	14.7	38.4	604.7	423.0	138.9	121.3
August..... do.	5.2	306.5	409.9	15.8	37.5	610.6	428.3	140.4	119.8
November..... do.	5.2	309.3	413.4	15.1	39.3	613.6	432.2	143.5	121.0
Hours..... 1,000.....	10.7	614.7	820.1	28.8	72.4	1 227.5	858.9	277.5	245.3
January to March..... do.	2.7	152.5	200.8	6.9	17.3	301.7	209.1	65.8	60.2
April to June..... do.	2.7	153.7	206.2	7.1	18.1	305.5	215.4	69.6	61.5
July to September..... do.	2.7	152.9	205.5	7.6	18.3	307.2	214.4	70.1	61.6
October to December..... do.	2.7	155.5	207.5	7.3	18.7	313.1	219.9	72.0	62.0
Wages..... mil dol.	118.8	5 222.7	7 239.9	254.2	698.3	13 401.4	9 874.1	3 043.4	2 608.5
Value added by manufacture..... do.	1 525.4	27 574.2	33 708.1	1 405.3	3 057.0	63 350.1	39 278.8	14 469.0	12 908.8
Cost of materials ³ do.	615.0	29 292.7	42 271.2	2 048.8	3 957.4	69 064.7	44 706.5	21 003.8	18 492.4
Materials, parts, containers, etc., consumed..... do.	384.1	24 185.2	38 066.9	1 713.1	3 479.7	60 378.4	40 023.2	18 702.6	15 416.6
Resales..... do.	22.2	2 880.5	1 568.3	207.5	159.1	4 056.0	1 863.2	1 304.1	1 842.9
Fuels consumed ⁴ do.	3.0	383.6	648.6	50.8	87.5	980.6	792.3	312.1	201.2
Purchased electric energy..... do.	8.5	607.9	913.4	25.9	125.6	1 739.1	1 167.6	373.7	300.0
Contract work..... do.	197.1	1 235.5	1 074.0	51.5	105.6	1 910.6	860.1	311.4	731.7
Quantity of electric energy used for heat and power:									
Purchased..... mil kWh.....	127.4	10 542.3	20 637.8	315.9	3 549.8	30 971.6	28 105.8	8 657.0	6 202.1
Generated less sold..... do.	-	3 800.6	3 988.7	437.6	(D)	1 369.1	4 467.9	440.8	359.3
Value of shipments ³ mil dol.	2 128.3	56 612.7	75 709.2	3 447.9	7 004.7	132 204.3	83 787.9	35 408.6	31 055.8
Inventories by stage of fabrication:									
Beginning of year..... mil dol.	100.7	7 438.6	8 655.6	370.3	812.9	16 406.3	9 916.0	3 593.7	3 846.8
Finished goods..... do.	37.0	2 385.9	2 903.8	187.5	344.8	6 452.3	3 387.2	1 405.0	1 135.7
Work in process..... do.	26.8	2 835.1	2 273.4	37.0	118.8	4 505.3	2 913.9	1 014.5	1 467.7
Materials and supplies..... do.	36.9	2 217.6	3 478.4	145.7	349.3	5 448.7	3 614.9	1 174.3	1 243.5
End of year..... do.	111.7	7 859.2	9 260.3	378.5	849.5	17 001.5	10 392.4	3 818.8	4 363.6
Finished goods..... do.	41.0	2 521.8	3 042.8	198.0	332.0	6 501.9	3 566.5	1 385.1	1 192.4
Work in process..... do.	34.9	3 028.7	2 402.4	44.5	133.7	4 662.4	2 927.5	1 098.3	1 756.9
Materials and supplies..... do.	35.8	2 308.7	3 815.1	136.0	383.8	5 837.2	3 898.4	1 335.3	1 414.3

See footnotes at end of table.

Table 2. Summary Statistics by State: 1987—Con.

[Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	District of Columbia	Florida	Georgia	Hawaii	Idaho	Illinois	Indiana	Iowa	Kansas
Gross book value of depreciable assets:									
Beginning of year..... mil dol.	508.2	19 325.2	23 938.4	1 222.3	2 896.5	45 464.5	35 178.2	10 922.4	8 430.1
New capital expenditures..... do.	43.6	1 910.7	2 471.5	102.0	234.8	4 425.8	3 363.9	834.2	1 011.2
Used capital expenditures..... do.	1.6	133.0	226.2	5.9	17.5	558.8	202.1	73.8	47.8
Retirements..... do.	54.6	773.2	669.1	23.9	179.8	1 693.9	1 120.7	469.6	265.1
End of year..... do.	498.7	20 595.7	25 967.0	1 306.3	2 969.0	48 755.2	37 623.6	11 360.9	9 224.0
Buildings and other structures:									
Beginning of year..... mil dol.	222.7	4 311.8	4 927.2	455.2	576.7	11 219.6	7 290.9	2 581.3	2 498.1
New capital expenditures..... do.	17.9	337.6	308.7	29.4	28.1	711.9	484.5	123.6	133.9
Used capital expenditures..... do.	.8	44.8	56.1	3.3	3.6	82.7	49.5	20.9	11.7
Retirements..... do.	41.9	81.0	62.8	5.3	18.3	212.1	173.1	46.8	77.4
End of year..... do.	199.5	4 613.2	5 229.2	482.6	590.1	11 802.1	7 651.8	2 678.9	2 566.3
Machinery and equipment:									
Beginning of year..... mil dol.	285.5	15 013.4	19 011.2	767.1	2 319.8	34 244.9	27 887.2	8 341.2	5 932.0
New capital expenditures..... do.	25.7	1 573.2	2 162.8	72.6	206.7	3 713.9	2 879.4	710.6	877.2
Used capital expenditures..... do.	.8	88.3	170.1	2.6	13.9	476.0	152.7	52.9	36.1
Retirements..... do.	12.7	692.3	606.4	18.5	161.5	1 481.8	947.6	422.8	187.7
End of year..... do.	299.2	15 982.5	20 737.8	823.7	2 378.9	36 953.1	29 971.8	8 681.9	6 657.6
Depreciation charges during 1987:									
Buildings and other structures..... mil dol.	36.1	1 692.3	1 754.1	70.0	201.2	3 264.8	2 241.7	765.7	617.5
Machinery and equipment..... do.	5.8	253.9	223.0	19.8	27.0	486.5	307.5	107.5	104.0
Rental payments:									
Buildings and other structures..... mil dol.	23.0	445.9	323.7	35.1	46.0	811.5	425.9	108.7	141.3
Machinery and equipment..... do.	16.0	223.6	131.7	19.2	9.3	358.5	138.8	45.9	56.4
	7.0	222.3	192.0	15.9	36.7	453.0	287.1	62.7	84.9
Item	Kentucky	Louisiana	Maine	Maryland	Massachusetts	Michigan	Minnesota	Mississippi	Missouri
Companies¹..... number..	3 274	3 443	2 046	3 934	10 132	14 221	6 386	2 925	6 487
All establishments²..... do.	3 693	3 816	2 172	4 244	11 006	16 010	7 112	3 318	7 290
With 1 to 19 employees..... do.	2 180	2 705	1 569	2 770	6 822	10 265	4 687	2 069	4 710
With 20 to 99 employees..... do.	941	785	397	1 002	3 031	4 271	1 713	712	1 777
With 100 employees or more..... do.	572	326	206	472	1 153	1 474	712	537	803
Employment and labor costs:									
Employees..... 1,000	251.6	161.4	101.6	230.4	591.3	980.1	374.2	218.9	418.8
Compensation..... mil dol.	7 178.8	5 119.8	2 697.8	7 260.6	18 289.4	37 644.6	11 945.0	4 633.6	12 527.0
Annual payroll..... do.	5 865.2	4 175.9	2 192.1	5 955.7	15 211.3	30 627.8	10 141.7	3 827.3	10 390.0
Fringe benefits..... do.	1 313.6	943.9	505.7	1 305.0	3 078.1	7 016.8	1 803.3	806.4	2 137.0
Social Security and other legally required payments..... do.	530.6	402.1	248.5	502.2	1 258.5	2 593.2	821.4	359.3	822.1
Employer payments and other programs..... do.	783.0	541.8	257.2	802.8	1 819.6	4 423.5	981.9	447.1	1 314.9
Production workers:									
Average for year..... 1,000	184.8	110.8	77.4	139.6	348.3	635.5	214.9	171.4	264.5
March..... do.	182.4	108.8	76.0	138.6	348.3	644.6	208.2	170.0	262.0
May..... do.	183.2	109.1	76.5	139.7	348.0	639.0	210.3	170.5	263.9
August..... do.	186.1	110.8	78.9	140.0	345.1	618.3	222.2	171.3	264.7
November..... do.	186.1	113.5	77.9	138.9	348.2	634.9	216.7	172.7	265.0
Hours..... 1,000	356.2	224.9	151.3	273.5	690.5	1 300.7	428.0	337.4	519.0
January to March..... do.	86.8	54.4	36.9	67.4	172.6	332.8	102.7	82.6	127.0
April to June..... do.	89.8	55.8	37.9	69.2	174.8	328.0	104.8	84.7	130.9
July to September..... do.	87.6	56.7	37.9	68.6	169.0	313.9	110.6	84.6	129.1
October to December..... do.	92.0	58.0	38.5	68.3	174.1	325.9	109.9	85.5	132.1
Wages..... mil dol.	3 752.3	2 587.8	1 457.0	2 994.3	7 018.9	17 393.0	4 512.7	2 620.6	5 401.6
Value added by manufacture..... do.	18 091.7	16 425.8	5 270.6	14 020.0	35 769.7	60 258.6	23 151.9	10 502.6	25 916.7
Cost of materials³..... do.	23 979.1	34 284.0	5 423.1	14 009.9	27 358.3	86 313.4	24 615.9	13 949.8	33 891.0
Materials, parts, containers, etc., consumed..... do.	21 128.6	30 540.7	4 487.1	12 198.8	23 700.3	79 481.6	22 190.2	12 365.0	30 927.2
Resales..... do.	1 284.3	863.7	31.5	703.7	1 552.8	2 067.1	1 245.9	551.8	1 405.9
Fuels consumed ⁴ do.	268.3	1 265.0	200.8	272.6	321.0	989.3	215.7	238.3	310.1
Purchased electric energy..... do.	965.5	887.3	225.0	357.1	591.4	1 477.8	375.0	362.3	598.9
Contract work..... do.	332.4	727.1	198.7	477.6	1 192.8	2 297.6	589.2	432.3	648.9
Quantity of electric energy used for heat and power:									
Purchased..... mil kWh..... do.	20 737.6	23 978.9	4 534.7	8 864.0	8 772.5	27 660.2	8 960.7	7 442.7	13 993.6
Generated less sold..... do.	(D)	12 486.7	2 835.3	889.6	369.2	2 105.2	533.8	(D)	39.0
Value of shipments⁵..... mil dol.	41 827.1	50 699.7	10 661.5	28 009.4	62 793.7	146 338.8	47 603.9	24 380.6	59 889.3
Inventories by stage of fabrication:									
Beginning of year..... mil dol.	4 960.7	4 070.2	1 289.1	3 761.3	9 731.8	12 485.2	5 408.5	2 493.1	10 442.5
Finished goods..... do.	2 007.2	1 844.6	485.7	1 128.1	2 858.3	3 230.6	1 688.2	977.7	1 794.5
Work in process..... do.	1 400.6	913.3	285.9	1 565.6	3 758.9	4 629.6	1 958.3	516.7	5 297.8
Materials and supplies..... do.	1 552.9	1 312.3	517.5	1 069.5	3 168.6	4 625.0	1 762.0	998.7	3 350.2
End of year..... do.	5 346.7	4 160.3	1 388.6	3 849.7	10 182.0	12 706.8	5 665.1	2 713.6	10 420.0
Finished goods..... do.	2 122.7	1 894.0	480.9	1 186.9	2 875.6	3 691.6	1 768.3	991.8	1 842.3
Work in process..... do.	1 517.7	855.7	319.3	1 530.3	4 087.2	4 407.0	2 034.2	583.9	5 166.1
Materials and supplies..... do.	1 706.3	1 410.6	588.3	1 132.5	3 219.2	4 608.2	1 862.6	1 137.8	3 411.6
Gross book value of depreciable assets:									
Beginning of year..... mil dol.	13 263.5	25 707.6	6 391.7	10 554.1	20 025.5	48 409.5	13 867.2	10 073.1	16 376.3
New capital expenditures..... do.	1 746.0	1 419.8	539.4	875.2	2 169.0	4 793.5	1 765.5	647.7	1 620.1
Used capital expenditures..... do.	190.7	83.7	152.4	78.4	194.5	416.1	109.6	45.9	96.9
Retirements..... do.	406.6	369.4	124.0	467.5	746.7	2 014.7	482.2	260.5	737.2
End of year..... do.	14 793.5	26 841.8	6 959.5	11 040.3	21 642.3	51 604.5	15 260.1	10 506.2	17 356.2
Buildings and other structures:									
Beginning of year..... mil dol.	2 540.8	5 349.5	1 044.4	2 060.7	4 895.5	10 092.9	3 159.2	3 383.4	4 277.1
New capital expenditures..... do.	142.3	125.7	51.6	113.9	476.5	804.9	473.3	103.2	313.3
Used capital expenditures..... do.	45.2	35.2	22.9	24.8	59.0	78.4	30.0	16.4	22.7
Retirements..... do.	42.6	27.9	10.0	86.0	116.3	163.1	67.1	51.5	61.7
End of year..... do.	2 685.6	5 482.4	1 108.8	2 113.4	5 314.7	10 813.0	3 595.6	3 451.5	4 551.5
Machinery and equipment:									
Beginning of year..... mil dol.	10 722.8	20 358.1	5 347.3	8 493.4	15 130.0	38 316.7	10 708.0	6 689.7	12 099.2
New capital expenditures..... do.	1 603.7	1 294.1	487.8	761.3	1 692.5	3 988.7	1 292.1	544.4	1 306.8
Used capital expenditures..... do.	145.5	48.6	129.5	53.6	135.5	337.8	79.5	29.5	74.2
Retirements..... do.	364.0	341.5	114.0	381.5	630.4	1 851.6	415.1	208.9	675.5
End of year..... do.	12 108.0	21 359.4	5 850.6	8 926.8	16 327.6	40 791.5	11 664.5	7 054.6	12 804.7
Depreciation charges during 1987:									
Buildings and other structures..... mil dol.	935.8	1 502.8	410.5	709.8	1 749.4	4 035.3	1 182.3	655.8	1 216.7
Machinery and equipment..... do.	109.1	258.2	70.1	90.3	248.1	516.4	152.0	165.5	192.9
	826.7	1 244.6	340.3	619.5	1 501.3	3 518.9	1 030.4	490.3	1 023.8

See footnotes at end of table.

Table 2. Summary Statistics by State: 1987—Con.

[Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendices]

Item	Kentucky	Louisiana	Maine	Maryland	Massachusetts	Michigan	Minnesota	Mississippi	Missouri
Rental payments mil dol..	236.1	161.1	72.0	237.5	649.3	576.7	323.7	87.4	354.2
Buildings and other structures do..	89.9	46.2	25.8	113.4	372.4	233.9	163.7	31.8	107.5
Machinery and equipment do..	146.2	114.9	46.3	124.1	276.9	342.8	160.0	55.6	246.8
Item	Montana	Nebraska	Nevada	New Hampshire	New Jersey	New Mexico	New York	North Carolina	North Dakota
Companies ¹ number..	1 189	1 664	951	2 202	13 195	1 289	27 745	9 308	584
All establishments ² do..	1 239	1 876	975	2 328	14 442	1 322	29 608	10 995	627
With 1 to 19 employees do..	1 055	1 245	734	1 593	8 975	1 038	20 108	6 228	488
With 20 to 99 employees do..	142	444	189	497	4 012	233	7 301	2 861	104
With 100 employees or more do..	42	187	52	238	1 455	51	2 199	1 906	35
Employment and labor costs:									
Employees 1,000..	20.1	90.7	23.7	107.9	690.8	34.7	1 278.7	842.4	15.4
Compensation mil dol..	538.8	2 329.3	632.9	3 042.3	21 787.0	870.5	40 050.9	19 396.7	378.4
Annual payroll do..	425.8	1 937.6	521.4	2 508.7	18 549.9	713.3	33 915.8	16 293.4	310.4
Fringe benefits do..	113.0	391.8	111.5	533.6	3 237.2	157.2	6 135.1	3 103.3	68.0
Social Security and other legally required payments do..	59.0	168.4	51.9	223.1	1 368.0	69.9	2 617.0	1 375.1	30.2
Employer payments and other programs do..	54.0	223.4	59.6	310.5	1 869.2	87.3	3 518.1	1 728.2	37.9
Production workers:									
Average for year 1,000..	14.8	64.2	15.8	71.5	394.4	23.7	723.3	637.3	10.4
March do..	14.5	60.8	15.6	71.9	394.6	23.1	722.9	630.1	10.0
May do..	14.7	63.3	15.5	71.7	394.4	23.4	719.1	632.0	10.3
August do..	15.0	65.9	15.9	70.9	389.0	23.9	720.5	639.3	10.3
November do..	14.8	66.1	15.9	71.1	395.2	24.0	724.2	643.1	10.8
Hours 1,000..	28.8	128.8	30.9	141.6	780.9	47.3	1 403.5	1 258.8	20.4
January to March do..	7.0	29.9	7.6	35.3	193.7	11.4	348.5	305.5	4.9
April to June do..	7.2	31.8	7.6	36.0	197.0	11.8	351.3	315.9	5.0
July to September do..	7.3	33.2	7.9	34.7	193.1	12.0	347.6	315.5	5.1
October to December do..	7.3	33.9	7.8	35.7	197.1	12.1	356.1	321.8	5.4
Wages mil dol..	296.2	1 211.9	299.6	1 426.8	8 389.3	432.5	14 408.2	10 293.0	180.1
Value added by manufacture do..	1 112.0	5 819.2	1 279.3	8 188.6	42 526.6	1 652.9	80 033.3	47 007.4	979.0
Cost of materials ³ do..	2 393.8	10 336.9	1 209.4	4 351.1	40 273.2	2 502.5	66 098.6	48 762.0	1 616.6
Materials, parts, containers, etc., consumed do..	2 052.7	9 352.4	1 014.9	3 791.7	34 442.4	2 251.8	52 653.3	43 847.9	1 500.4
Resales do..	61.9	719.7	82.4	216.7	2 598.5	86.4	4 583.6	1 978.6	61.5
Fuels consumed ⁴ do..	58.3	77.7	28.5	64.1	615.4	60.3	806.7	637.3	24.2
Purchased electric energy do..	126.1	112.7	39.8	131.3	918.6	63.8	1 438.7	1 334.5	20.7
Contract work do..	94.8	74.5	43.8	147.3	1 698.4	40.1	6 616.3	963.6	9.9
Quantity of electric energy used for heat and power:									
Purchased mil kWh..	5 152.2	2 897.7	1 166.6	2 020.2	13 397.4	1 012.4	29 451.0	28 077.1	433.7
Generated less sold do..	(D)	13.0	(S)	(D)	1 315.3	(D)	1 531.5	2 426.0	(D)
Value of shipments ³ mil dol..	3 497.9	16 076.2	2 470.4	12 214.2	82 451.0	4 226.4	145 656.5	95 317.3	2 574.0
Inventories by stage of fabrication:									
Beginning of year mil dol..	334.2	1 200.6	328.8	1 492.6	10 988.2	525.8	20 956.1	12 683.1	299.1
Finished goods do..	138.8	476.0	95.4	402.3	4 277.2	122.9	5 838.2	3 778.5	109.4
Work in process do..	68.6	273.1	81.5	556.3	3 127.7	252.2	9 315.0	3 090.5	40.9
Materials and supplies do..	126.8	451.5	152.0	534.0	3 583.3	150.7	5 803.0	5 814.1	148.9
End of year do..	342.6	1 288.7	334.2	1 850.4	11 492.6	534.9	21 810.7	13 201.6	328.1
Finished goods do..	150.0	537.7	105.1	407.2	4 466.2	115.1	5 993.8	4 009.3	129.6
Work in process do..	65.4	291.5	90.1	876.8	3 295.6	189.9	9 662.3	3 383.8	43.1
Materials and supplies do..	127.3	459.5	139.1	566.4	3 730.8	229.8	6 154.7	5 808.6	155.4
Gross book value of depreciable assets:									
Beginning of year mil dol..	1 300.7	3 369.0	1 051.7	3 665.1	25 295.4	1 707.1	45 806.9	32 855.2	944.5
New capital expenditures do..	97.0	317.9	114.0	339.8	2 312.5	196.4	4 296.5	2 958.7	47.0
Used capital expenditures do..	6.8	30.1	7.0	19.2	224.4	13.0	477.5	293.2	7.8
Retirements do..	51.0	117.9	61.2	117.1	976.0	33.6	1 909.9	829.7	31.2
End of year do..	1 353.5	3 599.1	1 111.4	3 906.9	26 856.2	1 882.9	48 670.9	35 277.4	968.1
Buildings and other structures:									
Beginning of year mil dol..	207.6	869.3	215.4	939.7	6 529.0	410.0	11 807.4	7 531.8	211.3
New capital expenditures do..	8.2	48.5	23.7	60.3	454.8	27.7	721.0	515.9	6.5
Used capital expenditures do..	1.7	9.5	2.3	5.0	83.5	3.6	169.7	73.5	.9
Retirements do..	9.3	17.5	10.2	14.2	132.3	5.8	280.4	94.6	4.0
End of year do..	208.2	909.8	231.2	990.7	6 935.0	435.5	12 417.7	8 026.5	214.7
Machinery and equipment:									
Beginning of year mil dol..	1 093.0	2 499.7	836.3	2 725.4	18 766.4	1 297.1	33 999.5	25 323.4	733.2
New capital expenditures do..	88.8	269.4	90.3	279.5	1 857.7	168.8	3 575.4	2 442.8	40.5
Used capital expenditures do..	5.1	20.6	4.7	14.2	140.9	9.4	307.9	219.7	6.8
Retirements do..	41.6	100.4	51.0	102.9	843.7	27.8	1 629.5	735.1	27.2
End of year do..	1 145.3	2 689.3	880.2	2 916.2	19 921.3	1 447.4	36 253.2	27 250.8	753.4
Depreciation charges during 1987 mil dol..	79.6	248.8	74.8	307.2	1 849.8	129.6	3 416.5	2 261.0	61.6
Buildings and other structures do..	10.0	36.9	10.8	46.8	318.1	25.3	541.7	320.7	9.6
Machinery and equipment do..	69.6	211.8	64.0	260.3	1 531.7	104.4	2 874.7	1 940.3	51.9
Rental payments mil dol..	13.8	45.5	28.2	75.1	683.6	28.0	1 191.5	425.3	8.5
Buildings and other structures do..	5.1	19.4	11.4	39.8	312.3	9.6	643.8	176.2	3.5
Machinery and equipment do..	8.7	26.1	16.8	35.3	371.3	18.4	547.7	249.1	5.0
Item	Ohio	Oklahoma	Oregon	Pennsylvania	Rhode Island	South Carolina	South Dakota	Tennessee	Texas
Companies ¹ number..	15 124	3 396	5 867	15 758	2 765	3 887	705	6 071	17 744
All establishments ² do..	17 544	3 728	6 353	17 844	2 878	4 534	764	6 864	20 370
With 1 to 19 employees do..	10 662	2 710	4 710	10 611	1 979	2 645	533	4 065	14 187
With 20 to 99 employees do..	4 789	699	1 209	4 928	683	1 043	172	1 726	4 473
With 100 employees or more do..	2 093	319	434	2 305	216	846	59	1 073	1 710
Employment and labor costs:									
Employees 1,000..	1 100.2	151.2	202.9	1 037.5	112.0	365.8	27.5	484.9	914.0
Compensation mil dol..	38 024.1	4 448.3	5 860.9	30 929.5	2 796.0	8 786.0	604.8	12 017.9	27 900.3
Annual payroll do..	30 765.2	3 629.3	4 767.2	25 301.6	2 292.0	7 323.9	497.9	9 869.2	23 240.9
Fringe benefits do..	7 258.8	819.0	1 093.7	5 627.9	504.0	1 462.1	106.8	2 148.7	4 659.4
Social Security and other legally required payments do..	2 706.3	334.5	519.9	2 358.1	233.0	651.4	45.2	870.7	2 012.7
Employer payments and other programs do..	4 552.6	484.5	573.8	3 269.8	271.0	810.7	61.7	1 277.9	2 646.7

See footnotes at end of table.

Table 2. Summary Statistics by State: 1987—Con.

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Item	Ohio	Oklahoma	Oregon	Pennsyl- vania	Rhode Island	South Carolina	South Dakota	Tennessee	Texas
Production workers:									
Average for year ----- 1,000-----	713.4	104.8	144.3	681.9	76.3	279.6	19.9	359.2	560.8
March-----do-----	708.1	103.3	137.2	670.7	76.3	277.0	19.2	356.2	553.6
May-----do-----	709.3	103.9	141.4	677.0	75.9	277.7	17.7	357.8	555.3
August-----do-----	710.4	103.8	151.2	685.6	76.0	279.9	21.7	358.3	561.3
November-----do-----	719.1	107.2	145.7	687.8	76.3	282.0	20.9	361.9	567.6
Hours ----- 1,000-----	1 447.9	207.0	280.0	1 330.1	149.4	566.2	38.8	707.4	1 125.2
January to March -----do-----	359.5	50.8	66.1	323.4	37.2	138.2	9.5	174.0	275.2
April to June -----do-----	362.1	51.2	69.8	333.7	37.7	142.0	9.1	177.9	279.9
July to September -----do-----	357.4	51.9	73.2	332.7	36.4	141.3	9.9	176.0	282.9
October to December -----do-----	369.0	53.1	70.9	340.4	38.2	144.6	10.3	179.5	287.2
Wages ----- mil dol-----	17 490.4	2 195.6	2 948.6	13 731.1	1 252.3	4 742.2	312.6	6 282.6	11 443.9
Value added by manufacture -----do-----	71 707.4	9 856.9	11 610.3	57 605.2	4 787.5	19 111.9	1 476.1	27 049.7	63 899.1
Cost of materials ³ -----do-----	87 237.8	14 288.8	13 831.1	61 606.1	4 418.0	22 300.3	2 406.8	30 819.7	99 496.7
Materials, parts, containers, etc., consumed -----do-----	77 598.5	12 993.4	11 784.6	53 337.7	3 771.2	19 233.7	2 120.6	26 989.6	89 208.9
Resales -----do-----	3 944.2	506.0	733.1	3 264.7	298.6	1 082.7	223.6	1 837.0	4 013.2
Fuels consumed ⁴ -----do-----	1 353.6	281.3	221.3	1 283.2	52.9	434.1	13.8	487.7	2 255.9
Purchased electric energy -----do-----	2 248.0	269.4	461.4	1 652.8	101.4	973.6	25.9	928.8	2 028.1
Contract work -----do-----	2 093.5	238.8	630.6	2 067.7	193.8	576.2	22.8	576.6	1 990.7
Quantity of electric energy used for heat and power:									
Purchased ----- mil kWh-----	60 228.4	7 046.1	13 714.8	32 482.1	1 358.1	23 852.9	590.6	22 703.6	50 794.2
Generated less sold -----do-----	(S)	684.0	1 033.4	2 072.8	(S)	2 243.8	(S)	2 153.0	(S)
Value of shipments ⁵ ----- mil dol-----	158 559.9	24 073.9	25 351.7	118 651.3	9 166.4	41 211.7	3 858.7	57 752.9	162 750.9
Inventories by stage of fabrication:									
Beginning of year ----- mil dol-----	18 184.5	2 849.5	2 880.3	16 060.8	1 510.1	5 004.0	324.5	7 077.1	18 443.2
Finished goods -----do-----	5 752.2	1 110.6	1 116.0	5 427.2	554.1	1 819.1	114.9	2 959.1	7 079.9
Work in process -----do-----	6 226.1	683.6	723.6	5 522.3	380.8	1 499.1	78.3	1 854.3	5 193.5
Materials and supplies -----do-----	6 206.1	1 055.3	1 040.7	5 111.3	575.2	1 685.8	131.3	2 263.7	6 169.8
End of year -----do-----	18 721.2	2 951.4	3 021.1	16 990.9	1 551.3	5 288.2	406.3	7 232.2	19 398.2
Finished goods -----do-----	5 860.6	1 140.1	1 184.8	5 575.2	580.0	1 863.9	132.7	2 931.6	7 073.2
Work in process -----do-----	6 498.5	728.1	754.2	5 925.5	393.2	1 650.2	84.9	1 848.5	5 843.9
Materials and supplies -----do-----	6 362.0	1 083.3	1 082.1	5 490.2	578.1	1 774.1	188.7	2 452.2	6 481.1
Gross book value of depreciable assets:									
Beginning of year ----- mil dol-----	52 441.0	8 286.0	9 362.9	44 409.3	2 668.8	19 486.4	813.2	20 118.3	73 701.7
New capital expenditures -----do-----	4 742.2	538.4	735.4	3 440.5	276.4	1 586.0	79.3	1 904.7	4 548.0
Used capital expenditures -----do-----	323.7	70.1	95.5	252.4	22.0	118.6	13.1	145.4	340.8
Retirements -----do-----	1 652.6	299.2	342.2	2 096.4	124.6	695.6	21.4	678.7	3 797.7
End of year -----do-----	55 854.4	8 595.3	9 851.6	46 005.8	2 842.7	20 495.4	884.1	21 489.8	74 792.8
Buildings and other structures:									
Beginning of year ----- mil dol-----	10 844.0	1 690.3	1 725.2	9 553.0	677.2	3 710.6	204.5	4 385.2	13 051.4
New capital expenditures -----do-----	673.2	65.0	82.8	634.2	52.6	201.2	15.9	266.3	604.9
Used capital expenditures -----do-----	69.4	13.6	19.6	60.3	7.0	26.2	3.0	36.2	105.6
Retirements -----do-----	183.1	50.5	44.3	240.9	24.4	92.3	3.2	65.7	492.2
End of year -----do-----	11 403.5	1 718.4	1 783.4	10 006.7	712.3	3 845.6	220.2	4 622.0	13 269.7
Machinery and equipment:									
Beginning of year ----- mil dol-----	41 596.9	6 595.7	7 637.6	34 856.0	1 991.7	15 775.8	608.7	15 733.1	60 650.3
New capital expenditures -----do-----	4 069.0	473.4	652.6	2 806.2	223.8	1 384.8	63.4	1 638.4	3 943.1
Used capital expenditures -----do-----	254.3	56.6	75.9	192.1	15.0	92.4	10.1	109.2	235.2
Retirements -----do-----	1 469.4	248.7	297.9	1 855.6	100.1	603.3	18.2	612.9	3 305.5
End of year -----do-----	44 450.8	6 876.9	8 068.2	35 999.1	2 130.4	16 649.8	664.0	16 867.8	61 523.1
Depreciation charges during 1987:									
Buildings and other structures ----- mil dol-----	3 716.3	577.4	671.1	3 025.7	221.7	1 300.7	68.6	1 441.9	4 728.4
Machinery and other structures -----do-----	442.1	71.8	86.3	430.3	31.4	160.7	10.4	193.0	611.4
Machinery and equipment -----do-----	3 274.2	505.7	584.8	2 595.3	190.3	1 140.0	58.2	1 248.9	4 117.1
Rental payments ----- mil dol-----	742.8	98.0	160.1	652.7	72.8	176.8	14.0	250.4	933.7
Buildings and other structures -----do-----	325.7	43.5	77.3	279.1	38.0	57.5	5.8	94.8	414.7
Machinery and equipment -----do-----	417.1	54.6	82.8	373.6	34.8	119.3	8.2	155.5	519.0
Item	Utah	Vermont	Virginia	Washington	West Virginia	Wisconsin	Wyoming		
Companies ¹ ----- number-----	1 978	1 209	5 382	7 133	1 502	8 090	477		
All establishments ² -----do-----	2 083	1 262	6 137	7 630	1 619	9 157	500		
With 1 to 19 employees -----do-----	1 472	929	3 907	5 680	1 131	5 697	420		
With 20 to 99 employees -----do-----	438	241	1 431	1 490	331	2 350	60		
With 100 employees or more -----do-----	173	92	799	460	157	1 110	20		
Employment and labor costs:									
Employees ----- 1,000-----	88.8	48.5	429.2	309.7	83.8	514.0	7.7		
Compensation ----- mil dol-----	2 476.3	1 381.2	11 624.2	10 751.2	2 642.7	15 606.4	219.5		
Annual payroll -----do-----	2 073.1	1 140.0	9 740.1	8 841.6	2 107.6	12 763.4	179.7		
Fringe benefits -----do-----	403.2	241.2	1 884.0	1 909.6	535.1	2 842.9	39.8		
Social Security and other legally required payments -----do-----	182.5	107.1	806.0	841.3	200.2	1 227.1	17.0		
Employer payments and other programs -----do-----	220.7	134.2	1 078.0	1 068.3	334.9	1 615.9	22.8		
Production workers:									
Average for year ----- 1,000-----	54.8	30.6	305.3	184.2	58.8	349.9	5.4		
March-----do-----	53.0	30.1	303.1	177.6	58.4	337.8	5.0		
May-----do-----	53.6	30.3	302.6	181.8	58.6	342.1	5.2		
August-----do-----	55.4	30.8	305.5	188.6	58.7	360.6	5.4		
November-----do-----	56.5	30.8	307.8	187.0	59.0	355.7	5.8		
Hours ----- 1,000-----	107.6	58.3	600.3	353.5	115.4	693.6	10.7		
January to March -----do-----	25.7	14.4	146.3	84.3	28.5	166.5	2.5		
April to June -----do-----	26.4	14.6	150.8	88.1	29.2	172.1	2.6		
July to September -----do-----	27.0	14.5	152.1	90.2	28.7	176.9	2.7		
October to December -----do-----	28.6	14.8	151.1	91.0	29.0	178.1	3.0		
Wages ----- mil dol-----	1 002.3	551.6	5 728.2	4 262.0	1 312.3	7 615.5	118.6		
Value added by manufacture -----do-----	4 882.9	2 543.1	26 857.3	19 016.1	5 404.4	31 653.0	492.8		
Cost of materials ³ -----do-----	5 468.9	2 201.8	25 453.9	28 698.3	5 980.0	38 051.0	1 595.7		
Materials, parts, containers, etc., consumed -----do-----	4 872.5	1 921.6	22 523.4	25 210.7	5 225.7	33 964.9	1 466.3		
Resales -----do-----	240.9	128.1	1 378.1	1 428.7	144.4	2 210.8	20.3		
Fuels consumed ⁴ -----do-----	65.6	25.9	424.7	369.7	264.5	517.0	31.1		
Purchased electric energy -----do-----	136.6	75.1	567.7	823.6	255.1	692.8	53.1		
Contract work -----do-----	153.2	51.1	560.0	865.6	90.3	665.6	24.8		

See footnotes at end of table.

Table 2. Summary Statistics by State: 1987—Con.

[Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Utah	Vermont	Virginia	Washington	West Virginia	Wisconsin	Wyoming
Quantity of electric energy used for heat and power:							
Purchased.....mil kWh.....	3 092.5	1 195.3	13 990.8	36 948.0	7 886.8	15 610.6	1 668.0
Generated less sold.....do.....	159.6	42.8	2 087.2	(S)	2 058.8	1 461.2	87.4
Value of shipments ³.....mil dol.....	10 286.7	4 752.7	51 902.1	46 531.8	11 560.8	69 595.8	2 074.3
Inventories by stage of fabrication:							
Beginning of year.....mil dol.....	1 331.2	727.8	6 611.3	8 419.1	1 976.5	7 944.7	234.1
Finished goods.....do.....	477.5	141.1	1 996.6	1 644.9	735.1	2 855.0	122.1
Work in process.....do.....	391.8	380.0	1 395.6	5 044.0	620.0	2 181.7	49.8
Materials and supplies.....do.....	461.8	206.6	3 219.1	1 730.3	621.4	2 908.0	62.2
End of year.....do.....	1 403.2	731.0	7 240.7	9 816.9	1 777.5	8 357.5	261.1
Finished goods.....do.....	503.4	147.0	2 202.5	1 808.2	661.6	2 915.4	117.4
Work in process.....do.....	430.7	366.3	1 751.3	6 089.7	518.0	2 223.2	68.6
Materials and supplies.....do.....	469.1	217.6	3 286.9	1 919.0	597.9	3 219.0	75.1
Gross book value of depreciable assets:							
Beginning of year.....mil dol.....	3 403.1	2 787.9	19 446.4	16 266.9	6 007.7	21 074.2	1 006.6
New capital expenditures.....do.....	403.5	334.4	1 542.7	1 244.8	434.8	2 027.4	65.3
Used capital expenditures.....do.....	21.5	57.0	99.6	144.5	50.5	182.7	4.0
Retirements.....do.....	141.8	165.5	618.4	489.8	256.6	661.1	8.7
End of year.....do.....	3 686.3	3 013.9	20 470.2	17 166.4	6 236.3	22 623.3	1 067.3
Buildings and other structures:							
Beginning of year.....mil dol.....	975.3	531.8	4 997.3	3 672.8	863.9	4 824.5	160.6
New capital expenditures.....do.....	85.7	27.8	279.0	155.7	68.9	326.3	5.1
Used capital expenditures.....do.....	7.9	14.7	23.7	25.2	14.1	40.3	.8
Retirements.....do.....	54.1	9.5	92.3	51.1	43.2	82.0	1.0
End of year.....do.....	1 014.8	564.7	5 207.7	3 802.6	903.7	5 109.1	165.4
Machinery and equipment:							
Beginning of year.....mil dol.....	2 427.8	2 256.1	14 449.1	12 594.0	5 143.7	16 249.7	846.1
New capital expenditures.....do.....	317.8	306.8	1 263.6	1 089.0	365.9	1 701.1	60.2
Used capital expenditures.....do.....	13.6	42.3	75.9	119.4	36.4	142.4	3.3
Retirements.....do.....	87.7	156.0	526.1	438.6	213.4	579.1	7.7
End of year.....do.....	2 671.5	2 449.2	15 262.5	13 363.8	5 332.7	17 514.2	901.8
Depreciation charges during 1987:							
Buildings and other structures.....mil dol.....	299.7	238.4	1 293.1	1 051.3	358.7	1 493.0	93.8
Machinery and equipment.....do.....	56.2	21.9	213.1	162.6	34.3	214.0	9.5
Machinery and equipment.....do.....	243.5	216.5	1 079.9	888.7	324.4	1 279.0	84.3
Rental payments.....mil dol.....	78.1	34.8	284.3	275.4	44.9	327.1	6.8
Buildings and other structures.....do.....	39.0	15.9	114.1	144.0	11.8	127.8	2.1
Machinery and equipment.....do.....	39.1	18.8	170.2	131.4	33.2	199.3	4.7

¹For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

²Includes establishments with payroll at any time during year.

³Aggregate of cost of materials and value of shipments includes extensive duplication, since products of some industries are used as materials by others (see appendixes).

Table 3. Selected Statistics for All Manufacturing Establishments and Auxiliaries by State and Metropolitan Area: 1987

[Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area	E ¹	All establishments ^{2 3}		All employees ²		Production workers			Value added by manufacture (million dollars)	Cost of materials ⁴ (million dollars)	Value of shipments ⁴ (million dollars)	New capital expenditures (million dollars)
		Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
Alabama.....	-	5 843	2 067	347.3	6 962.5	268.8	530.7	4 745.6	18 652.1	22 299.1	40 901.4	1 360.1
Anniston, AL MSA.....	-	143	67	10.7	176.6	8.3	16.3	122.5	352.9	417.4	773.5	16.7
Birmingham, AL MSA.....	-	1 150	426	51.6	1 093.0	36.1	71.3	661.3	2 613.2	3 141.3	5 748.0	157.7
Columbus, GA-AL MSA.....	-	204	97	19.8	411.3	14.3	30.1	262.8	1 139.7	1 232.5	2 364.5	76.5
Portion in Alabama.....	-	46	17	3.1	65.3	2.7	5.6	51.1	223.5	318.2	541.6	16.9
Portion in Georgia.....	-	158	80	16.8	346.0	11.6	24.5	211.6	916.2	914.3	1 822.9	59.6
Dothan, AL MSA.....	-	148	54	10.2	178.4	7.9	16.2	117.7	423.6	474.2	895.0	38.1
Florence, AL MSA.....	-	214	83	12.2	263.7	9.5	18.9	182.4	579.6	1 383.7	2 037.2	41.5
Gadsden, AL MSA.....	-	110	46	11.1	287.3	9.0	18.9	221.0	677.4	667.6	1 341.1	19.4
Huntsville, AL MSA.....	E1	293	108	25.6	705.2	16.1	32.6	380.6	1 881.9	1 566.4	3 427.2	158.5
Mobile, AL MSA.....	-	517	159	25.0	598.5	18.3	36.4	393.8	2 114.0	2 518.0	4 592.9	187.6
Montgomery, AL MSA.....	-	337	123	18.6	349.5	14.1	28.9	232.4	935.2	972.2	1 895.2	56.8
Tuscaloosa, AL MSA.....	-	152	56	8.7	214.5	6.5	13.0	149.2	579.6	814.0	1 392.2	44.7
Alaska.....	E1	427	106	11.1	271.7	8.4	16.7	191.4	834.0	1 892.6	2 710.7	68.6
Anchorage, AK MSA.....	E1	146	22	2.3	59.8	1.3	2.4	30.0	234.8	490.9	714.1	9.3
Arizona.....	-	4 151	1 131	184.1	4 669.0	105.9	214.2	2 148.8	11 299.0	9 597.0	20 757.7	836.9
Phoenix, AZ MSA.....	-	2 803	811	135.8	3 541.5	78.7	160.9	1 673.3	8 179.8	6 022.5	14 061.8	655.2
Tucson, AZ MSA.....	-	686	162	30.7	793.3	14.6	28.9	254.0	1 947.0	1 661.7	3 608.8	126.1

See footnotes at end of table.

Table 3. Selected Statistics for All Manufacturing Establishments and Auxiliaries by State and Metropolitan Area: 1987—Con.

[Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area	E ¹	All establishments ^{2 3}		All employees ²		Production workers			Value added by manufacture (million dollars)	Cost of materials ⁴ (million dollars)	Value of shipments ⁴ (million dollars)	New capital expenditures (million dollars)
		Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
Arkansas	-	3 390	1 210	205.5	3 814.6	161.7	326.3	2 651.6	10 826.9	14 680.3	25 307.6	891.5
Fayetteville-Springdale, AR MSA	-	140	62	9.8	165.3	7.6	15.1	117.1	409.3	609.1	1 027.1	37.9
Fort Smith, AR-OK MSA	-	298	124	25.9	527.6	21.0	41.6	370.6	1 529.1	1 928.1	3 402.1	86.2
Portion in Arkansas	-	277	121	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Portion in Oklahoma	-	21	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Little Rock-North Little Rock, AR MSA	-	590	212	31.1	632.0	21.6	42.2	386.6	1 761.0	2 122.6	3 785.0	112.3
Memphis, TN-AR-MS MSA	-	1 178	520	60.3	1 330.8	40.1	79.8	741.9	4 114.2	5 269.3	9 347.3	228.2
Portion in Arkansas	E1	48	20	1.9	31.5	1.4	2.7	20.6	77.5	172.9	250.1	8.4
Portion in Mississippi	E1	97	52	6.2	115.8	4.3	8.1	65.5	302.0	410.1	710.6	13.3
Portion in Tennessee	-	1 033	448	52.3	1 183.5	34.5	69.0	655.7	3 734.8	4 686.4	8 386.6	206.5
Pine Bluff, AR MSA	-	87	38	5.8	142.8	4.5	9.6	102.9	388.7	520.7	902.9	68.6
Texarkana, TX-Texarkana, AR MSA	-	106	34	7.3	171.9	5.3	9.4	111.7	465.8	390.1	847.2	38.2
Portion in Arkansas	-	29	9	2.4	64.9	1.8	3.5	46.9	193.8	165.3	347.3	(D)
Portion in Texas	-	77	25	4.9	107.0	3.5	5.9	64.8	272.0	224.9	499.9	(D)
California	E1	49 930	15 702	2 104.3	57 147.8	1 240.2	2 432.9	25 697.0	132 637.5	121 049.4	252 728.8	8 571.7
Bakersfield, CA MSA	E1	357	80	7.7	174.0	5.1	9.8	98.3	532.5	929.6	1 455.2	51.2
Chico, CA MSA	E1	222	51	5.7	107.7	4.4	8.5	78.5	274.3	401.3	671.0	20.5
Fresno, CA MSA	E1	678	205	21.1	442.4	14.8	28.7	262.5	1 309.9	1 881.2	3 172.6	71.9
Los Angeles-Anaheim-Riverside, CA CMSA	E1	28 939	9 848	1 255.9	32 750.1	781.8	1 538.3	15 817.6	72 520.5	66 562.8	138 893.3	4 248.5
Anaheim-Santa Ana, CA PMSA	E1	5 855	1 838	254.6	6 786.3	147.0	294.4	3 081.8	14 860.0	11 062.9	25 887.1	881.6
Los Angeles-Long Beach, CA PMSA	E1	19 753	6 960	881.0	23 114.4	557.2	1 089.9	11 239.9	50 903.6	49 074.3	99 886.0	2 995.5
Oxnard-Ventura, CA PMSA	E1	836	257	34.6	920.2	19.9	39.6	414.7	2 201.3	1 481.1	3 671.9	98.2
Riverside-San Bernardino, CA PMSA	E1	2 494	792	85.6	1 924.8	57.7	114.4	1 081.2	4 553.6	4 942.6	9 445.3	273.2
Merced, CA MSA	-	120	53	7.3	137.9	5.8	11.8	102.2	379.6	953.2	1 322.6	21.9
Modesto, CA MSA	-	379	134	23.2	531.9	17.4	34.1	354.9	2 209.2	2 456.7	4 625.4	130.6
Redding, CA MSA	E1	239	54	5.0	117.6	3.7	7.1	84.9	338.7	403.7	732.1	17.3
Sacramento, CA MSA	E1	1 415	334	41.6	1 002.9	25.3	49.8	513.1	2 802.3	2 754.3	5 495.7	176.3
Salinas-Seaside-Monterey, CA MSA	-	252	60	7.8	182.7	4.9	9.0	101.7	603.6	519.9	1 195.1	30.7
San Diego, CA MSA	E1	3 041	801	120.0	3 236.3	67.4	129.2	1 369.1	6 426.8	4 697.2	10 996.6	429.0
San Francisco-Oakland-San Jose, CA CMSA	E1	11 124	3 236	507.1	16 113.2	239.0	468.6	5 497.8	38 913.2	32 089.3	70 578.9	2 974.7
Oakland, CA PMSA	-	3 211	932	107.0	3 068.8	62.0	122.7	1 490.7	9 479.3	13 216.1	22 628.4	798.2
San Francisco, CA PMSA	E2	3 153	814	81.9	2 270.0	45.1	85.5	887.6	5 374.6	3 698.9	9 053.1	224.6
San Jose, CA PMSA	E1	3 298	1 134	275.7	9 742.1	104.6	208.9	2 562.7	20 866.3	11 392.2	32 056.3	1 742.9
Santa Cruz, CA PMSA	E1	375	81	12.2	288.2	8.4	15.2	147.6	995.7	1 090.6	2 076.7	64.7
Santa Rosa-Petaluma, CA PMSA	E1	657	164	19.2	467.1	12.0	23.0	252.0	1 090.2	1 015.4	2 088.0	58.6
Vallejo-Fairfield-Napa, CA PMSA	-	430	111	11.0	277.1	7.0	13.3	157.3	1 108.2	1 676.0	2 675.5	85.6
Santa Barbara-Santa Maria-Lompoc, CA MSA	E1	523	127	20.2	563.0	8.6	17.1	163.9	1 023.6	758.5	1 733.6	53.8
Stockton, CA MSA	-	535	208	25.8	581.1	19.4	37.6	400.3	1 880.9	2 136.8	3 974.3	139.0
Visalia-Tulare-Porterville, CA MSA	E2	301	93	11.2	216.7	8.4	16.3	150.5	705.9	998.5	1 688.6	32.4
Yuba City, CA MSA	E1	117	27	3.1	67.2	2.4	4.5	47.0	197.6	326.7	512.7	9.9
Colorado	-	4 718	1 104	183.8	4 958.4	103.3	204.0	2 285.6	12 045.8	11 176.4	23 235.9	791.5
Colorado Springs, CO MSA	-	419	100	22.2	532.9	13.3	25.6	258.2	1 136.6	1 008.4	2 111.9	97.9
Denver-Boulder, CO CMSA	E1	3 012	755	125.9	3 602.9	67.7	134.1	1 589.5	8 037.3	6 757.0	14 864.2	585.8
Boulder-Longmont, CO PMSA	E1	507	139	29.5	776.0	11.6	23.4	211.3	1 451.0	1 226.9	2 744.2	144.1
Denver, CO PMSA	-	2 505	616	96.4	2 826.9	56.1	110.7	1 378.2	6 586.4	5 530.1	12 120.0	441.7
Fort Collins-Loveland, CO MSA	-	274	68	12.5	336.5	6.3	13.2	149.1	694.6	435.6	1 124.3	40.4
Greeley, CO MSA	-	142	32	7.9	202.0	5.0	9.7	104.2	1 457.4	1 585.0	3 037.1	33.6
Pueblo, CO MSA	-	95	17	3.6	85.7	2.4	5.2	57.4	230.7	241.6	467.2	12.3
Connecticut	E1	6 747	2 460	388.9	11 110.6	216.5	440.6	4 825.6	22 348.9	15 506.1	37 400.3	1 293.3
Hartford-New Britain-Middletown, CT CMSA	-	2 154	794	131.3	3 697.2	75.6	154.4	1 755.9	7 596.9	5 270.5	12 700.5	494.1
Bristol, CT PMSA	E1	209	70	8.1	212.1	5.8	11.5	128.1	411.9	242.7	666.2	25.7
Hartford, CT PMSA	-	1 339	493	92.5	2 679.0	49.1	100.2	1 156.7	5 428.8	3 799.3	9 024.9	306.6
Middletown, CT PMSA	-	184	72	10.4	291.4	7.0	14.6	181.1	701.3	483.4	1 156.8	30.8
New Britain, CT PMSA	E1	422	159	20.4	514.7	13.6	28.1	290.0	1 054.8	745.1	1 852.7	130.9
New Haven-Meriden, CT MSA	E1	1 135	407	48.6	1 242.2	30.1	61.4	623.2	2 836.7	2 138.6	4 864.8	205.1
New London-Norwich, CT-RI MSA	-	292	109	35.3	1 003.0	19.2	40.9	459.2	2 044.6	1 028.9	3 051.0	89.6
Portion in Connecticut	-	237	93	33.5	962.4	17.8	38.0	433.3	1 959.1	928.6	2 863.6	(D)
Portion in Rhode Island	-	55	16	1.9	40.6	1.4	2.8	25.9	85.5	100.3	187.4	(D)
New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA	E1	35 493	11 840	1 393.2	37 365.6	763.9	1 482.2	14 790.6	81 959.2	68 461.7	149 611.3	3 916.0
Portion in Connecticut	E1	2 164	784	131.2	4 197.0	61.7	124.2	1 409.0	7 464.1	5 166.7	12 474.6	379.8
Portion in New Jersey	E1	11 742	4 437	539.0	14 608.1	303.3	602.6	6 293.5	33 159.0	30 752.8	63 705.2	1 826.3
Portion in New York	E2	21 587	6 619	723.0	18 560.6	398.9	755.3	7 088.2	41 336.1	32 542.1	73 431.5	1 709.9
Bergen-Passaic, NJ PMSA	E1	3 721	1 424	162.7	4 245.4	91.3	181.9	1 800.3	8 237.1	6 821.7	14 998.9	380.8
Bridgeport-Milford, CT PMSA	-	989	374	60.6	1 824.0	33.7	69.3	811.0	3 441.1	2 608.2	5 981.0	159.9
Danbury, CT PMSA	E1	408	148	22.6	680.9	11.3	22.8	242.9	1 367.1	954.5	2 278.3	99.2
Jersey City, NJ PMSA	E1	1 385	512	46.0	977.8	32.1	61.4	536.7	2 635.9	2 760.5	5 372.9	212.7
Middlesex-Somerset-Hunterdon, NJ PMSA	-	1 753	748	110.2	3 250.4	57.2	115.9	1 315.4	8 799.1	7 992.8	16 714.2	529.9

See footnotes at end of table.

Table 3. **Selected Statistics for All Manufacturing Establishments and Auxiliaries by State and Metropolitan Area: 1987—Con.**

[Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area	E¹	All establishments² ³		All employees²		Production workers			Value added by manu- facture (million dollars)	Cost of materials⁴ (million dollars)	Value of shipments⁴ (million dollars)	New capital expenditures (million dollars)
		Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
Connecticut—Con.												
New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA—Con.												
Monmouth-Ocean, NJ PMSA	E1	996	262	34.8	888.1	18.8	36.7	349.0	1 794.3	1 488.7	3 282.9	97.5
Nassau-Suffolk, NJ PMSA	E1	4 948	1 458	187.1	4 968.0	107.2	210.2	2 181.8	10 914.9	7 284.2	17 948.9	559.5
New York, NY PMSA	E2	16 277	5 021	522.3	13 323.1	282.0	526.6	4 745.0	29 743.2	24 578.6	54 135.9	1 101.6
Newark, NJ PMSA	E1	3 887	1 491	185.3	5 246.3	103.8	206.6	2 292.1	11 692.7	11 689.2	23 335.4	605.3
Norwalk, CT PMSA	E1	301	106	19.1	599.4	7.8	15.1	157.8	930.3	637.1	1 552.9	54.7
Orange County, NY PMSA	E2	362	140	13.6	269.5	9.7	18.6	161.3	675.9	677.4	1 344.3	48.8
Stamford, CT PMSA	E1	466	156	28.8	1 092.6	9.0	17.0	197.2	1 725.5	966.9	2 662.3	66.0
Waterbury, CT MSA	E1	547	205	22.6	539.8	15.3	31.1	300.0	1 187.8	972.5	2 172.0	69.5
Delaware												
	-	673	262	66.6	2 090.8	32.8	65.2	760.0	3 866.0	6 926.1	10 729.7	276.9
Philadelphia-Wilmington-Trenton, PA-NJ-DE-MD												
CMSA	-	8 660	3 303	486.8	13 364.4	276.4	543.1	6 141.7	28 940.8	34 805.9	63 287.5	1 647.8
Portion in Delaware	-	424	169	47.7	1 738.3	18.3	37.1	526.8	2 474.0	5 198.8	7 619.3	212.0
Portion in Maryland	-	65	23	2.9	61.5	1.9	3.7	32.6	171.6	121.5	292.3	13.3
Portion in New Jersey	E1	2 297	884	134.1	3 507.1	79.0	155.5	1 839.8	7 880.6	8 554.9	16 273.8	410.4
Portion in Pennsylvania	E1	5 874	2 227	302.2	8 057.6	177.1	346.8	3 742.5	18 414.5	20 930.7	39 102.0	1 012.0
Philadelphia, PA-NJ PMSA	E1	7 414	2 822	375.2	9 981.4	224.4	439.0	4 864.8	23 311.8	26 887.7	49 788.1	1 271.1
Portion in New Jersey	E1	1 540	595	73.0	1 923.7	47.4	92.2	1 122.3	4 898.1	5 958.7	10 688.0	259.1
Portion in Pennsylvania	E1	5 874	2 227	302.2	8 057.6	177.1	346.8	3 742.5	18 414.5	20 930.7	39 102.0	1 012.0
Trenton, NJ PMSA	E1	468	174	39.8	1 058.1	15.9	32.7	377.8	1 359.2	1 237.8	2 593.0	84.0
Vineland-Millville-Bridgeton, NJ PMSA	E1	235	96	15.2	308.4	11.6	22.5	211.2	820.4	723.9	1 537.9	47.8
Wilmington, DE-NJ-MD PMSA	-	542	210	56.6	2 011.3	24.5	48.9	687.9	3 448.6	5 954.8	9 366.6	244.9
Portion in Delaware	-	424	169	47.7	1 738.3	18.3	37.1	526.8	2 474.0	5 198.8	7 619.3	212.0
Portion in Maryland	-	65	23	2.9	61.5	1.9	3.7	32.6	171.6	121.5	292.3	13.3
Portion in New Jersey	-	53	18	6.0	211.6	4.2	8.1	128.5	802.9	634.6	1 455.0	19.6
District of Columbia												
	E1	486	124	17.0	494.1	5.2	10.7	118.8	1 525.4	615.0	2 128.3	43.6
Washington, DC-MD-VA MSA	E1	2 744	767	103.2	2 992.4	44.2	88.3	957.9	6 788.0	4 193.5	10 859.3	352.0
Portion in District of Columbia	E1	486	124	17.0	494.1	5.2	10.7	118.8	1 525.4	615.0	2 128.3	43.6
Portion in Maryland	E1	1 223	358	44.1	1 162.7	22.7	45.4	464.1	2 377.3	2 044.3	4 435.6	152.4
Portion in Virginia	E1	1 035	285	42.1	1 335.6	16.3	32.3	375.0	2 885.2	1 534.2	4 295.4	156.0
Florida												
	E1	15 603	4 046	499.3	10 954.0	308.7	614.7	5 222.7	27 574.2	29 292.7	56 612.7	1 910.7
Bradenton, FL MSA	-	215	58	9.3	198.9	6.6	14.4	115.8	671.0	860.3	1 502.8	38.6
Daytona Beach, FL MSA	E1	359	76	12.6	264.3	7.6	15.9	118.0	603.7	439.4	1 029.7	42.3
Fort Myers-Cape Coral, FL MSA	E2	305	72	5.6	100.8	3.6	7.1	55.1	239.3	212.6	452.0	13.2
Fort Pierce, FL MSA	-	231	64	6.4	124.9	4.1	8.4	72.2	366.6	380.3	700.2	12.0
Fort Walton Beach, FL MSA	E1	115	31	4.7	75.6	3.6	7.1	48.8	180.1	122.1	290.8	8.5
Gainesville, FL MSA	-	198	51	5.9	116.9	4.3	8.3	72.7	341.0	391.0	725.9	21.7
Jacksonville, FL MSA	-	942	284	35.4	807.8	24.4	49.3	491.6	2 834.8	3 070.8	5 936.3	170.1
Lakeland-Winter Haven, FL MSA	-	469	191	20.7	416.4	14.9	30.4	253.4	1 517.4	2 599.7	4 109.3	83.8
Melbourne-Titusville-Palm Bay, FL MSA	E1	387	97	24.3	665.0	10.5	19.7	206.6	1 412.6	1 093.7	2 500.1	92.1
Miami-Fort Lauderdale, FL CMSA	E2	5 185	1 338	132.6	2 504.3	88.4	170.8	1 326.1	5 700.2	4 788.4	10 480.7	254.0
Fort Lauderdale-Hollywood-Pompano Beach, FL PMSA	E2	1 790	397	43.3	936.0	26.2	51.9	446.1	2 138.3	1 606.8	3 746.3	122.0
Miami-Hialeah, FL PMSA	E2	3 395	941	89.3	1 568.4	62.2	119.0	880.1	3 561.9	3 181.6	6 734.4	132.0
Naples, FL MSA	E2	136	21	1.5	29.2	.9	1.7	14.5	73.8	56.2	129.7	5.5
Ocala, FL MSA	E2	208	60	6.5	113.4	4.6	8.9	69.3	247.7	301.9	545.9	23.5
Orlando, FL MSA	-	1 249	358	51.9	1 302.9	26.9	54.1	466.2	3 197.8	2 467.0	5 655.3	203.4
Panama City, FL MSA	-	114	22	2.8	64.8	2.2	4.6	47.9	170.3	277.3	447.2	(D)
Pensacola, FL MSA	-	262	57	10.8	284.0	7.5	15.6	177.2	894.0	961.9	1 836.7	(D)
Sarasota, FL MSA	E1	427	90	8.9	180.2	5.6	11.3	88.5	433.1	259.6	692.2	24.9
Tallahassee, FL MSA	E2	205	48	4.5	76.3	3.4	6.6	47.8	179.4	164.6	343.0	12.4
Tampa-St. Petersburg-Clearwater, FL MSA	E1	2 546	681	84.5	1 834.5	51.2	103.9	854.2	4 139.8	4 361.8	8 547.0	279.1
West Palm Beach-Boca Raton-Delray Beach, FL MSA	-	861	200	38.5	1 189.6	13.6	28.4	282.8	2 685.6	3 894.7	6 405.7	160.0
Georgia												
	-	9 187	3 527	569.9	11 933.1	409.4	820.1	7 239.9	33 708.1	42 271.2	75 709.2	2 471.5
Albany, GA MSA	-	97	42	8.0	214.0	6.0	12.1	148.3	910.1	1 228.1	2 123.6	(D)
Athens, GA MSA	E1	197	75	15.4	255.1	12.1	21.7	171.8	616.5	722.2	1 338.9	33.9
Atlanta, GA MSA	-	3 878	1 390	200.4	5 073.3	122.1	243.3	2 569.2	13 345.7	14 747.5	28 085.7	900.2
Augusta, GA-SC MSA	-	347	159	38.9	999.6	24.5	50.5	521.2	2 830.5	2 293.1	5 047.9	192.3
Portion in Georgia	-	251	114	19.0	427.8	12.8	26.0	235.5	1 345.5	1 551.8	2 874.2	145.4
Portion in South Carolina	-	96	45	19.9	571.8	11.7	24.4	285.7	1 485.0	741.3	2 173.8	46.9
Chattanooga, TN-GA MSA	-	644	292	44.2	887.1	32.5	65.5	559.4	2 298.7	3 479.4	5 744.3	178.2
Portion in Georgia	-	146	73	11.4	193.8	9.2	19.1	140.5	550.1	1 431.7	1 961.1	53.6
Portion in Tennessee	-	498	219	32.8	693.3	23.3	46.4	418.9	1 748.5	2 047.7	3 783.2	124.6
Columbus, GA-AL MSA	-	204	97	19.8	411.3	14.3	30.1	262.8	1 139.7	1 232.5	2 364.5	76.5
Portion in Alabama	-	46	17	3.1	65.3	2.7	5.6	51.1	223.5	318.2	541.6	16.9
Portion in Georgia	-	158	80	16.8	346.0	11.6	24.5	211.6	916.2	914.3	1 822.9	59.6
Macon-Warner Robins, GA MSA	-	262	94	18.7	471.6	13.7	27.9	323.2	2 310.3	1 571.3	3 884.6	84.1
Savannah, GA MSA	-	244	78	15.9	430.5	10.4	22.7	263.1	1 110.0	2 139.4	3 194.5	252.6
Hawaii												
	E1	1 022	225	22.2	440.2	15.2	28.8	254.2	1 405.3	2 048.8	3 447.9	102.0
Honolulu, HI MSA	E1	800	182	16.5	330.7	10.9	19.9	178.2	1 077.1	1 716.6	2 783.8	66.1

Table 3. Selected Statistics for All Manufacturing Establishments and Auxiliaries by State and Metropolitan Area: 1987—Con.

[Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area	E ¹	All establishments ^{2 3}		All employees ²		Production workers			Value added by manufacture (million dollars)	Cost of materials ⁴ (million dollars)	Value of shipments ⁴ (million dollars)	New capital expenditures (million dollars)
		Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
Idaho	-	1 491	371	52.9	1 148.5	38.3	72.4	698.3	3 057.0	3 957.4	7 004.7	234.8
Boise City, ID MSA	-	284	73	11.1	293.3	6.1	12.0	117.5	633.7	850.1	1 473.7	48.4
Illinois	-	18 404	7 188	989.6	26 234.7	609.3	1 227.5	13 401.4	63 350.1	69 064.7	132 204.3	4 425.8
Bloomington-Normal, IL MSA	-	99	34	6.4	132.9	3.5	6.9	74.3	323.1	464.2	786.3	(D)
Champaign-Urbana-Rantoul, IL MSA	-	141	58	9.4	189.7	6.4	12.1	117.5	676.5	976.0	1 685.7	34.7
Chicago-Gary-Lake County, IL-IN-WI CMSA	-	14 350	5 678	755.4	20 580.3	454.4	923.8	10 211.5	49 773.3	51 079.7	100 463.9	2 921.2
Portion in Illinois	E1	13 707	5 432	690.1	18 507.8	406.0	823.7	8 753.5	43 778.8	41 385.8	84 913.6	2 349.6
Portion in Indiana	-	483	192	52.7	1 696.5	38.7	80.1	1 190.4	5 199.2	8 123.1	13 189.5	550.6
Portion in Wisconsin	-	160	54	12.6	376.0	9.7	20.0	267.6	795.3	1 570.7	2 360.7	20.9
Aurora-Elgin, IL PMSA	E1	800	331	38.8	977.8	25.8	52.3	557.2	2 723.1	2 424.8	5 147.7	163.7
Chicago, IL PMSA	E1	11 742	4 658	579.9	15 458.7	343.9	697.6	7 369.8	36 217.2	32 871.7	68 933.3	1 780.5
Gary-Hammond, IN PMSA	-	483	192	52.7	1 696.5	38.7	80.1	1 190.4	5 199.2	8 123.1	13 189.5	550.6
Joliet, IL PMSA	-	405	154	20.5	595.4	14.2	29.6	376.2	1 916.1	4 152.6	6 014.1	150.0
Kenosha, WI PMSA	-	160	54	12.6	376.0	9.7	20.0	267.6	795.3	1 570.7	2 360.7	20.9
Lake County, IL PMSA	-	760	289	50.9	1 476.1	22.1	44.2	450.4	2 920.7	1 935.3	4 816.3	255.4
Davenport-Rock Island-Moline, IA-IL MSA	-	452	159	32.7	979.0	21.3	41.8	554.6	2 144.8	3 767.2	5 905.9	176.8
Portion in Illinois	-	259	97	19.2	557.3	11.8	22.3	279.7	1 215.0	1 874.7	3 104.4	70.0
Portion in Iowa	-	193	62	13.5	421.6	9.5	19.4	274.9	929.8	1 892.5	2 801.5	106.8
Decatur, IL MSA	-	128	46	13.1	428.2	8.2	16.7	254.7	1 281.8	2 061.9	3 345.0	135.6
Kankakee, IL MSA	-	111	45	7.0	170.7	4.7	9.1	108.0	606.5	671.9	1 301.6	32.0
Peoria, IL MSA	-	319	128	29.7	979.5	15.8	32.0	472.1	1 902.8	2 259.0	4 165.4	192.3
Rockford, IL MSA	-	772	297	43.8	1 229.7	27.8	56.4	669.5	2 807.7	2 482.2	5 274.1	441.9
St. Louis, MO-IL MSA	-	3 351	1 242	221.7	6 461.1	124.9	249.4	3 097.6	14 115.0	21 919.9	36 175.1	1 086.5
Portion in Illinois	-	482	151	28.4	805.0	20.2	41.0	517.7	1 911.5	5 038.6	6 942.8	198.9
Portion in Missouri	-	2 869	1 091	193.3	5 656.1	104.7	208.3	2 579.9	12 203.5	16 881.7	29 233.4	887.6
Springfield, IL MSA	E1	133	39	4.4	92.6	2.8	5.4	48.9	203.7	294.0	496.3	10.3
Indiana	-	8 641	3 612	602.0	15 756.5	426.7	858.9	9 874.1	39 278.8	44 706.5	83 787.9	3 363.9
Anderson, IN MSA	-	132	42	16.8	599.0	12.5	25.5	433.3	973.4	1 142.1	2 119.1	45.4
Bloomington, IN MSA	-	108	35	8.2	184.8	6.9	13.4	140.7	763.5	872.9	1 616.2	(D)
Chicago-Gary-Lake County, IL-IN-WI CMSA	-	14 350	5 678	755.4	20 580.3	454.4	923.8	10 211.5	49 773.3	51 079.7	100 463.9	2 921.2
Portion in Illinois	E1	13 707	5 432	690.1	18 507.8	406.0	823.7	8 753.5	43 778.8	41 385.8	84 913.6	2 349.6
Portion in Indiana	-	483	192	52.7	1 696.5	38.7	80.1	1 190.4	5 199.2	8 123.1	13 189.5	550.6
Portion in Wisconsin	-	160	54	12.6	376.0	9.7	20.0	267.6	795.3	1 570.7	2 360.7	20.9
Aurora-Elgin, IL PMSA	E1	800	331	38.8	977.8	25.8	52.3	557.2	2 723.1	2 424.8	5 147.7	163.7
Chicago, IL PMSA	E1	11 742	4 658	579.9	15 458.7	343.9	697.6	7 369.8	36 217.2	32 871.7	68 933.3	1 780.5
Gary-Hammond, IN PMSA	-	483	192	52.7	1 696.5	38.7	80.1	1 190.4	5 199.2	8 123.1	13 189.5	550.6
Joliet, IL PMSA	-	405	154	20.5	595.4	14.2	29.6	376.2	1 916.1	4 152.6	6 014.1	150.0
Kenosha, WI PMSA	-	160	54	12.6	376.0	9.7	20.0	267.6	795.3	1 570.7	2 360.7	20.9
Lake County, IL PMSA	-	760	289	50.9	1 476.1	22.1	44.2	450.4	2 920.7	1 935.3	4 816.3	255.4
Cincinnati-Hamilton, OH-KY-IN CMSA	-	2 530	1 014	174.4	5 130.7	97.3	197.2	2 425.3	12 831.7	13 026.7	25 735.1	770.7
Portion in Indiana	-	35	14	2.8	73.7	2.2	4.3	52.1	199.3	190.0	390.7	13.1
Portion in Kentucky	E1	286	122	12.5	288.0	8.1	16.0	164.8	655.4	781.4	1 430.4	48.9
Portion in Ohio	-	2 209	878	159.1	4 768.9	87.0	176.8	2 208.4	11 977.1	12 055.4	23 914.0	708.6
Cincinnati, OH-KY-IN PMSA	-	2 242	903	151.9	4 437.0	82.0	165.5	1 967.9	11 335.0	11 338.2	22 532.6	701.0
Portion in Indiana	-	35	14	2.8	73.7	2.2	4.3	52.1	199.3	190.0	390.7	(D)
Portion in Kentucky	E1	286	122	12.5	288.0	8.1	16.0	164.8	655.4	781.4	1 430.4	(D)
Portion in Ohio	-	1 921	767	136.6	4 075.2	71.6	145.1	1 750.9	10 480.0	10 366.9	20 711.7	638.9
Hamilton-Middletown, OH PMSA	-	288	111	22.5	693.7	15.3	31.7	457.4	1 496.7	1 688.5	3 202.3	69.7
Elkhart-Goshen, IN MSA	E1	855	436	50.0	1 100.8	36.1	70.2	646.9	2 640.8	3 138.0	5 760.2	113.5
Evansville, IN-KY MSA	-	407	161	32.0	919.5	21.4	42.6	518.7	3 484.0	3 526.8	6 949.8	319.1
Portion in Indiana	-	346	129	27.4	812.6	17.8	36.0	443.8	3 285.0	3 024.1	6 242.0	292.6
Portion in Kentucky	-	61	32	4.6	106.9	3.7	6.6	74.9	198.9	502.7	707.9	26.5
Fort Wayne, IN MSA	-	674	285	45.7	1 187.3	29.6	58.4	642.6	2 361.8	2 674.0	5 055.3	155.7
Indianapolis, IN MSA	-	1 813	650	105.6	3 033.6	65.9	133.1	1 639.4	6 806.0	6 434.2	13 274.7	513.7
Kokomo, IN MSA	-	85	32	18.5	677.1	13.7	29.4	477.6	1 169.0	1 413.4	2 546.6	204.7
Lafayette-West Lafayette, IN MSA	-	106	47	11.7	328.9	8.1	16.1	200.8	941.4	1 053.1	1 965.0	100.6
Louisville, KY-IN MSA	-	1 223	532	86.1	2 352.8	58.6	117.1	1 430.1	8 320.8	10 106.9	18 210.7	332.3
Portion in Indiana	-	242	104	13.4	297.3	10.1	20.4	203.4	1 160.2	1 779.4	1 921.6	38.6
Portion in Kentucky	-	981	428	72.6	2 055.4	48.5	96.7	1 226.7	7 160.6	9 327.5	16 289.4	293.7
Muncie, IN MSA	-	188	75	11.2	327.3	7.9	16.1	216.5	611.3	561.3	1 177.3	44.9
South Bend-Mishawaka, IN MSA	-	489	189	23.2	599.5	14.8	28.9	313.2	1 189.9	1 682.2	2 887.6	79.6
Terre Haute, IN MSA	-	161	65	10.9	296.4	7.0	15.2	176.1	1 012.8	1 023.2	2 034.6	93.8
Iowa	-	3 569	1 259	206.1	4 971.1	140.1	277.5	3 043.4	14 469.0	21 003.8	35 408.6	834.2
Cedar Rapids, IA MSA	-	234	91	23.4	669.8	11.4	23.0	289.3	2 110.7	1 741.3	3 862.5	117.1
Davenport-Rock Island-Moline, IA-IL MSA	-	452	159	32.7	979.0	21.3	41.8	554.6	2 144.8	3 767.2	5 905.9	176.8
Portion in Illinois	-	259	97	19.2	557.3	11.8	22.3	279.7	1 215.0	1 874.7	3 104.4	70.0
Portion in Iowa	-	193	62	13.5	421.6	9.5	19.4	274.9	929.8	1 892.5	2 801.5	106.8
Des Moines, IA MSA	-	474	158	24.4	587.1	14.5	28.0	322.2	1 480.9	2 541.8	4 013.1	87.4
Dubuque, IA MSA	-	143	58	12.2	318.4	8.3	16.2	199.9	775.1	1 127.5	1 893.4	38.2
Iowa City, IA MSA	-	76	18	3.7	84.5	2.5	4.6	54.3	614.1	370.0	985.1	21.6
Omaha, NE-IA MSA	-	702	262	33.7	789.3	23.4	45.2	489.9	2 384.8	3 212.2	5 553.9	118.9
Portion in Iowa	(D)	75	26	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Portion in Nebraska	(D)	627	236	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

See footnotes at end of table.

Table 3. **Selected Statistics for All Manufacturing Establishments and Auxiliaries by State and Metropolitan Area: 1987—Con.**

[Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area	E¹	All establishments² ³		All employees²		Production workers			Value added by manu- facture (million dollars)	Cost of materials⁴ (million dollars)	Value of shipments⁴ (million dollars)	New capital expenditures (million dollars)
		Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
Iowa—Con.	-											
Sioux City, IA-NE MSA	-	119	59	9.9	204.9	6.1	13.4	104.7	329.5	1 937.4	2 259.7	26.1
Portion in Iowa	-	101	51	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Portion in Nebraska	-	18	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Waterloo-Cedar Falls, IA MSA	-	188	63	11.9	369.8	8.2	15.7	230.6	857.5	699.2	1 559.6	29.3
Kansas	-	3 275	1 139	189.1	4 597.2	120.7	245.3	2 608.5	12 908.8	18 492.4	31 055.8	1 011.2
Kansas City, MO-KS MSA	-	2 254	805	115.4	3 121.2	68.1	135.6	1 580.1	9 124.0	10 330.9	19 398.6	740.0
Portion in Kansas	-	877	330	40.5	1 013.4	26.1	51.3	577.5	3 261.7	3 363.5	6 627.1	473.2
Portion in Missouri	-	1 377	475	74.9	2 107.8	42.0	84.3	1 002.6	5 862.2	6 967.4	12 771.8	266.7
Lawrence, KS MSA	-	82	29	4.5	98.8	3.1	6.5	60.5	549.4	313.3	864.4	(D)
Topeka, KS MSA	-	130	50	9.0	234.6	6.6	12.8	160.5	980.9	660.6	1 632.6	35.2
Wichita, KS MSA	-	697	240	69.0	1 952.3	35.6	76.7	940.6	4 122.8	4 781.4	8 615.4	317.3
Kentucky	-	3 693	1 513	251.6	5 865.2	184.8	356.2	3 752.3	18 091.7	23 979.1	41 827.1	1 746.0
Cincinnati-Hamilton, OH-KY-IN CMSA	-	2 530	1 014	174.4	5 130.7	97.3	197.2	2 425.3	12 831.7	13 026.7	25 735.1	770.7
Portion in Indiana	-	35	14	2.8	73.7	2.2	4.3	52.1	199.3	190.0	390.7	13.1
Portion in Kentucky	E1	286	122	12.5	288.0	8.1	16.0	164.8	655.4	781.4	1 430.4	48.9
Portion in Ohio	-	2 209	878	159.1	4 768.9	87.0	176.8	2 208.4	11 977.1	12 055.4	23 914.0	708.6
Cincinnati, OH-KY-IN PMSA	-	2 242	903	151.9	4 437.0	82.0	165.5	1 967.9	11 335.0	11 338.2	22 532.6	701.0
Portion in Indiana	-	35	14	2.8	73.7	2.2	4.3	52.1	199.3	190.0	390.7	(D)
Portion in Kentucky	E1	286	122	12.5	288.0	8.1	16.0	164.8	655.4	781.4	1 430.4	(D)
Portion in Ohio	-	1 921	767	136.6	4 075.2	71.6	145.1	1 750.9	10 480.4	10 366.9	20 711.7	638.9
Hamilton-Middletown, OH PMSA	-	288	111	22.5	693.7	15.3	31.7	457.4	1 496.7	1 688.5	3 202.3	69.7
Clarksville-Hopkinsville, TN-KY MSA	-	117	46	9.3	177.8	7.0	13.2	115.7	461.4	502.5	945.1	28.1
Portion in Kentucky	-	47	23	4.0	72.6	3.2	6.2	52.4	165.9	230.3	396.3	(D)
Portion in Tennessee	-	70	23	5.3	105.2	3.8	7.0	63.3	295.5	272.2	548.8	(D)
Evansville, IN-KY MSA	-	407	161	32.0	919.5	21.4	42.6	518.7	3 484.0	3 526.8	6 949.8	319.1
Portion in Indiana	-	346	129	27.4	812.6	17.8	36.0	443.8	3 285.0	3 024.1	6 242.0	292.6
Portion in Kentucky	-	61	32	4.6	106.9	3.7	6.6	74.9	198.9	502.7	707.9	26.5
Huntington-Ashland, WV-KY-OH MSA	-	275	90	16.6	467.0	12.2	23.9	323.5	1 263.7	2 493.4	3 754.1	91.8
Portion in Kentucky	-	74	31	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Portion in Ohio	-	46	11	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Portion in West Virginia	-	155	48	7.2	184.7	4.9	9.7	115.2	439.7	341.1	789.9	42.3
Lexington-Fayette, KY MSA	-	388	156	27.1	734.1	17.1	33.5	365.9	2 031.2	2 112.8	4 112.4	796.6
Louisville, KY-IN MSA	-	1 223	532	86.1	2 352.8	58.6	117.1	1 430.1	8 320.8	10 106.9	18 210.7	332.3
Portion in Indiana	-	242	104	13.4	297.3	10.1	20.4	203.4	1 160.2	779.4	1 921.6	38.6
Portion in Kentucky	-	981	428	72.6	2 055.4	48.5	96.7	1 226.7	7 160.6	9 327.5	16 289.4	293.7
Owensboro, KY MSA	-	97	43	7.5	194.0	5.2	10.1	127.7	635.6	1 393.5	2 046.0	86.4
Louisiana	-	3 816	1 111	161.4	4 175.9	110.8	224.9	2 587.8	16 425.8	34 284.0	50 699.7	1 419.8
Alexandria, LA MSA	-	106	26	4.1	88.3	2.6	5.2	48.1	425.1	303.8	731.6	17.2
Baton Rouge, LA MSA	-	456	143	19.2	633.0	10.7	22.8	305.6	3 222.6	7 509.6	10 711.5	316.6
Houma-Thibodaux, LA MSA	E1	178	50	3.7	74.1	2.6	5.3	45.3	215.7	239.1	441.5	11.5
Lafayette, LA MSA	E2	208	43	5.9	111.9	4.3	8.4	72.7	316.6	326.8	635.8	11.4
Lake Charles, LA MSA	-	121	42	9.5	311.5	6.6	13.6	202.9	1 425.3	4 292.9	5 679.3	193.8
Monroe, LA MSA	-	161	50	7.1	190.7	4.8	9.6	121.5	527.5	714.4	1 234.0	66.3
New Orleans, LA MSA	-	937	273	43.1	1 145.4	27.3	55.6	676.1	4 314.7	9 122.8	13 466.0	262.9
Shreveport, LA MSA	-	344	107	19.3	490.3	13.9	26.7	338.0	1 961.2	2 561.3	4 556.6	73.3
Maine	-	2 172	603	101.6	2 192.1	77.4	151.3	1 457.0	5 270.6	5 423.1	10 661.5	539.4
Bangor, ME MSA	-	107	39	5.1	111.3	3.8	8.0	72.3	321.7	264.2	580.6	54.3
Lewiston-Auburn, ME MSA	-	181	85	10.8	186.3	8.3	16.2	124.6	425.3	375.7	802.7	(D)
Portland, ME MSA	-	326	84	14.6	348.1	9.6	18.6	183.7	933.0	743.4	1 667.0	101.3
Portsmouth-Dover-Rochester, NH-ME MSA	E1	324	105	19.8	455.5	13.8	27.7	274.6	1 116.5	852.2	1 915.6	77.8
Portion in Maine	-	51	11	3.6	90.9	2.8	6.2	65.8	245.2	290.0	526.4	(D)
Portion in New Hampshire	E1	273	94	16.1	364.6	10.9	21.5	208.8	871.4	562.2	1 389.2	(D)
Maryland	-	4 244	1 474	230.4	5 955.7	139.6	273.5	2 994.3	14 020.0	14 009.9	28 009.4	875.2
Baltimore, MD MSA	-	2 311	864	145.2	3 975.3	86.6	169.2	1 994.4	9 675.6	9 546.2	19 215.2	509.6
Cumberland, MD-WV MSA	E1	91	34	6.0	156.4	3.8	7.3	92.3	388.3	280.9	678.2	(D)
Portion in Maryland	-	69	23	4.3	114.3	3.0	6.1	81.4	354.3	252.9	617.5	(D)
Portion in West Virginia	E1	22	11	1.7	42.1	.8	1.3	10.9	34.0	27.9	60.7	(D)
Hagerstown, MD MSA	-	146	66	11.5	259.3	8.6	17.8	181.3	471.4	678.5	1 112.9	63.3
Philadelphia-Wilmington-Trenton, PA-NJ-DE- CMSA	-	8 660	3 303	486.8	13 364.4	276.4	543.1	6 141.7	28 940.8	34 805.9	63 287.5	1 647.8
Portion in Delaware	-	424	169	47.7	1 738.3	18.3	37.1	526.8	2 474.0	5 198.8	7 619.3	212.0
Portion in Maryland	-	65	23	2.9	61.5	1.9	3.7	32.6	171.6	121.5	292.3	13.3
Portion in New Jersey	E1	2 297	884	134.1	3 507.1	79.0	155.5	1 839.8	7 880.6	8 554.9	16 273.8	410.4
Portion in Pennsylvania	E1	5 874	2 227	302.2	8 057.6	177.1	346.8	3 742.5	18 414.5	20 930.7	39 102.0	1 012.0
Philadelphia, PA-NJ PMSA	E1	7 414	2 822	375.2	9 981.4	224.4	439.0	4 864.8	23 311.8	26 887.7	49 788.1	1 271.1
Portion in New Jersey	E1	1 540	595	73.0	1 923.7	47.4	92.2	1 122.3	4 898.1	5 958.7	10 688.0	259.1
Portion in Pennsylvania	E1	5 874	2 227	302.2	8 057.6	177.1	346.8	3 742.5	18 414.5	20 930.7	39 102.0	1 012.0
Trenton, NJ PMSA	E1	468	174	39.8	1 058.1	15.9	32.7	377.8	1 359.2	1 237.8	2 593.0	84.0
Vineland-Millville-Bridgeton, NJ PMSA	E1	235	96	15.2	308.4	11.6	22.5	211.2	820.4	723.9	1 537.9	47.8
Wilmington, DE-NJ-MD PMSA	-	542	210	56.6	2 011.3	24.5	48.9	687.9	3 448.6	5 954.8	9 366.6	244.9
Portion in Delaware	-	424	169	47.7	1 738.3	18.3	37.1	526.8	2 474.0	5 198.8	7 619.3	212.0
Portion in Maryland	-	65	23	2.9	61.5	1.9	3.7	32.6	171.6	121.5	292.3	13.3
Portion in New Jersey	-	53	18	6.0	211.6	4.2	8.1	128.5	802.9	634.6	1 455.0	19.6

See footnotes at end of table.

Table 3. Selected Statistics for All Manufacturing Establishments and Auxiliaries by State and Metropolitan Area: 1987—Con.

[Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area	E ¹	All establishments ^{2 3}		All employees ²		Production workers			Value added by manufacture (million dollars)	Cost of materials ⁴ (million dollars)	Value of shipments ⁴ (million dollars)	New capital expenditures (million dollars)
		Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
Maryland—Con.												
Washington, DC-MD-VA MSA	E1	2 744	767	103.2	2 992.4	44.2	88.3	957.9	6 788.0	4 193.5	10 859.3	352.0
Portion in District of Columbia	E1	486	124	17.0	494.1	5.2	10.7	118.8	1 525.4	615.0	2 128.3	43.6
Portion in Maryland	E1	1 223	358	44.1	1 162.7	22.7	45.4	464.1	2 377.3	2 044.3	4 435.6	152.4
Portion in Virginia	E1	1 035	285	42.1	1 335.6	16.3	32.3	375.0	2 885.2	1 534.2	4 295.4	156.0
Massachusetts	E1	11 006	4 184	591.3	15 211.3	348.3	690.5	7 018.9	35 769.7	27 358.3	62 793.7	2 169.0
Boston-Lawrence-Salem, MA-NH CMSA	E1	7 598	2 819	425.5	11 645.0	233.9	463.4	5 061.5	29 713.5	20 160.8	49 323.2	1 667.9
Portion in Massachusetts	E1	6 947	2 598	387.4	10 600.0	211.8	420.0	4 509.8	24 945.8	18 467.1	43 163.4	1 538.4
Portion in New Hampshire	-	651	221	38.1	1 044.9	22.1	43.3	551.7	4 767.6	1 693.6	6 159.8	129.5
Boston, MA PMSA	E1	5 001	1 836	272.4	7 679.2	141.1	280.1	3 107.3	17 050.5	12 027.1	28 883.8	1 108.1
Brockton, MA PMSA	E1	353	139	10.9	222.8	7.7	14.5	130.4	568.3	443.4	1 006.0	25.6
Lawrence-Haverhill, MA-NH PMSA	-	742	285	50.9	1 221.8	32.6	63.9	641.4	5 451.9	3 071.5	8 444.7	197.5
Portion in Massachusetts	-	544	236	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Portion in New Hampshire	-	198	49	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Lowell, MA-NH PMSA	-	442	183	37.5	1 059.1	20.5	41.5	403.2	2 844.4	2 227.7	5 117.3	151.4
Portion in Massachusetts	-	435	181	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Portion in New Hampshire	E1	7	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Nashua, NH PMSA	-	446	170	31.1	883.0	18.0	35.8	481.1	2 427.7	1 241.0	3 365.1	109.4
Salem-Gloucester, MA PMSA	E1	614	206	22.7	579.1	14.0	27.5	298.1	1 370.5	1 150.0	2 506.3	75.9
Fitchburg-Leominster, MA MSA	E1	277	117	11.2	257.1	7.9	15.8	147.8	552.8	555.9	1 088.6	44.8
New Bedford, MA MSA	E1	312	132	20.1	386.7	15.0	28.3	246.7	891.2	810.2	1 684.8	47.7
Pittsfield, MA MSA	-	110	45	12.7	396.4	5.4	11.4	132.3	648.2	451.7	1 085.9	43.0
Providence-Pawtucket-Fall River, RI-MA CMSA	E1	3 338	1 108	134.4	2 618.3	93.6	182.2	1 458.4	5 493.1	5 386.3	10 821.3	344.2
Portion in Massachusetts	E1	595	250	35.6	674.5	25.8	49.9	393.7	1 440.1	1 472.0	2 900.9	88.8
Portion in Rhode Island	E1	2 743	858	98.8	1 943.8	67.8	132.3	1 064.7	4 053.0	3 914.4	7 920.5	255.4
Fall River, MA-RI PMSA	E1	279	120	16.9	272.9	13.8	25.7	191.4	610.4	509.9	1 119.6	32.4
Portion in Massachusetts	E1	266	120	16.9	272.4	13.7	25.7	191.0	609.5	508.6	1 117.4	(D)
Portion in Rhode Island	E9	13	-	(Z)	.5	(Z)	.1	.4	.9	1.3	2.2	(D)
Pawtucket-Woonsocket-Attleboro, RI-MA PMSA	E1	986	402	52.6	1 080.0	35.7	70.7	582.3	2 183.5	2 400.6	4 535.6	119.7
Portion in Massachusetts	E1	329	130	18.7	402.1	12.1	24.3	202.7	830.6	963.4	1 783.4	(D)
Portion in Rhode Island	E1	657	272	33.9	677.9	23.6	46.4	379.6	1 352.9	1 437.2	2 752.2	(D)
Providence, RI PMSA	E1	2 073	586	64.8	1 265.3	44.1	85.8	684.8	2 699.2	2 475.8	5 166.1	192.0
Springfield, MA MSA	-	993	404	50.2	1 174.9	34.2	69.4	676.8	3 542.1	2 728.5	6 291.6	159.2
Worcester, MA MSA	E1	861	332	40.8	1 014.0	25.4	51.2	508.6	2 077.7	1 636.4	3 697.7	147.7
Michigan	-	16 010	5 745	980.1	30 627.8	635.5	1 300.7	17 393.0	60 258.6	86 313.4	146 338.8	4 793.5
Battle Creek, MI MSA	-	211	90	15.3	490.6	10.8	23.7	308.6	1 632.4	907.9	2 544.3	236.4
Benton Harbor, MI MSA	-	390	152	22.3	559.9	13.9	28.0	282.5	970.9	1 626.2	2 545.7	66.6
Detroit-Ann Arbor, MI CMSA	-	8 500	3 000	518.3	17 586.5	301.4	623.8	8 759.0	31 044.0	51 322.8	82 328.8	2 304.2
Ann Arbor, MI PMSA	-	428	168	39.5	1 322.8	27.4	55.0	866.9	2 901.2	4 453.2	7 348.1	227.1
Detroit, MI PMSA	-	8 072	2 832	478.8	16 263.8	274.0	568.8	7 892.1	28 142.5	46 868.7	74 979.1	2 077.1
Flint, MI MSA	-	323	97	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Grand Rapids, MI MSA	-	1 593	666	101.5	2 647.9	72.1	144.6	1 678.3	5 967.7	5 200.9	11 135.5	609.8
Jackson, MI MSA	-	324	134	13.3	327.7	9.0	18.2	184.2	627.9	779.6	1 406.8	37.4
Kalamazoo, MI MSA	-	393	151	27.9	916.7	18.1	37.7	515.9	2 307.7	1 683.4	3 970.6	206.7
Lansing-East Lansing, MI MSA	-	399	135	35.6	1 183.1	27.4	56.0	863.7	1 930.5	5 471.0	7 378.5	148.9
Muskegon, MI MSA	-	275	101	17.7	481.7	12.0	24.1	291.4	1 151.6	860.4	1 999.1	121.4
Saginaw-Bay City-Midland, MI MSA	-	412	153	38.9	1 375.2	27.1	56.4	904.7	3 337.6	2 763.7	6 080.7	368.0
Minnesota	-	7 112	2 425	374.2	10 141.7	214.9	428.0	4 512.7	23 151.9	24 615.9	47 603.9	1 765.5
Duluth, MN-WI MSA	E1	285	62	7.9	166.2	4.2	7.7	81.0	361.1	473.8	839.5	(D)
Portion in Minnesota	E2	231	50	6.6	138.5	3.3	6.0	62.4	271.3	218.8	493.7	(D)
Portion in Wisconsin	-	54	12	1.2	27.6	.9	1.7	18.6	89.8	255.0	345.8	(D)
Fargo-Moorhead, ND-MN MSA	-	155	48	4.9	97.4	3.3	6.2	55.8	256.0	415.3	666.6	15.9
Portion in Minnesota	-	33	7	.9	22.3	.6	1.1	11.1	27.2	77.4	104.4	(D)
Portion in North Dakota	-	122	41	4.0	75.1	2.7	5.1	44.7	228.7	337.9	562.1	(D)
Minneapolis-St. Paul, MN-WI MSA	-	4 494	1 648	250.1	7 486.3	128.0	253.4	2 989.8	15 562.0	14 727.8	30 187.7	993.5
Portion in Minnesota	-	4 403	1 619	247.0	7 421.8	125.8	249.0	2 950.7	15 393.3	14 535.0	29 829.3	980.0
Portion in Wisconsin	E1	91	29	3.1	64.5	2.2	4.4	39.1	168.7	192.8	359.3	13.5
Rochester, MN MSA	-	66	24	10.3	378.2	3.4	12.5	75.3	1 037.6	724.6	1 762.1	47.0
St. Cloud, MN MSA	E1	250	80	11.1	233.1	8.3	16.4	151.9	608.1	671.5	1 290.9	37.2
Mississippi	-	3 318	1 249	218.9	3 827.3	171.4	337.4	2 620.6	10 502.6	13 949.8	24 380.6	647.7
Biloxi-Gulfport, MS MSA	-	164	50	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Jackson, MS MSA	E1	394	134	19.5	390.7	13.7	27.5	238.9	1 138.7	1 366.7	2 502.9	72.6
Memphis, TN-AR-MS MSA	-	1 178	520	60.3	1 330.8	40.1	79.8	741.9	4 114.2	5 269.3	9 347.3	228.2
Portion in Arkansas	E1	48	20	1.9	31.5	1.4	2.7	20.6	77.5	172.9	250.1	8.4
Portion in Mississippi	E1	97	52	6.2	115.8	4.3	8.1	65.5	302.0	410.9	710.6	133.3
Portion in Tennessee	-	1 033	448	52.3	1 183.5	34.5	69.0	655.7	3 734.8	4 686.4	8 386.6	206.5
Pascagoula, MS MSA	-	89	34	16.8	463.1	10.8	21.0	277.8	1 332.4	2 519.5	3 801.2	58.8

See footnotes at end of table.

Table 3. **Selected Statistics for All Manufacturing Establishments and Auxiliaries by State and Metropolitan Area: 1987—Con.**

[Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area		All establishments ^{2 3}		All employees ²		Production workers			Value added by manu- facture ⁴ (million dollars)	Cost of materials ⁴ (million dollars)	Value of shipments ⁴ (million dollars)	New capital expenditures (million dollars)
		Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
	E ¹											
Missouri	-	7 290	2 580	418.8	10 390.0	264.5	519.0	5 401.6	25 916.7	33 891.0	59 889.3	1 620.1
Columbia, MO MSA	-	87	25	4.0	81.7	2.4	5.0	44.6	244.7	192.8	439.7	14.4
Joplin, MO MSA	-	265	97	16.0	300.2	12.6	24.6	211.2	779.6	1 078.1	1 857.7	36.5
Kansas City, MO-KS MSA	-	2 254	805	115.4	3 121.2	68.1	135.6	1 580.1	9 124.0	10 330.9	19 398.6	740.0
Portion in Kansas	-	877	330	40.5	1 013.4	26.1	51.3	577.5	3 261.7	3 363.5	6 627.1	473.2
Portion in Missouri	-	1 377	475	74.9	2 107.8	42.0	84.3	1 002.6	5 862.2	6 967.4	12 771.8	266.7
St. Joseph, MO MSA	-	102	43	8.1	181.5	6.0	11.5	123.5	645.1	984.0	1 632.1	35.2
St. Louis, MO-IL MSA	-	3 351	1 242	221.7	6 461.1	124.9	249.4	3 097.6	14 115.0	21 919.9	36 175.1	1 086.5
Portion in Illinois	-	482	151	28.4	805.0	20.2	41.0	517.7	1 911.5	5 038.6	6 942.8	198.9
Portion in Missouri	-	2 869	1 091	193.3	5 656.1	104.7	208.3	2 579.9	12 203.5	16 881.7	29 233.4	887.6
Springfield, MO MSA	-	378	126	21.2	412.7	14.8	27.7	258.3	953.4	1 992.4	2 951.9	54.9
Montana	E1	1 239	184	20.1	425.8	14.8	28.8	296.2	1 112.0	2 393.8	3 497.9	97.0
Billings, MT MSA	-	147	27	3.0	70.0	1.8	3.6	40.7	159.9	958.2	1 109.6	25.3
Great Falls, MT MSA	E1	60	12	1.0	19.6	.6	1.1	10.6	45.6	90.5	137.6	4.0
Nebraska	-	1 876	631	90.7	1 937.6	64.2	128.8	1 211.9	5 819.2	10 336.9	16 076.2	317.9
Lincoln, NE MSA	-	237	95	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Omaha, NE-IA MSA	-	702	262	33.7	789.3	23.4	45.2	489.9	2 384.8	3 212.2	5 553.9	118.9
Portion in Iowa	-	75	26	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Portion in Nebraska	-	627	236	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Sioux City, IA-NE MSA	-	119	59	9.9	204.9	6.1	13.4	104.7	329.5	1 937.4	2 259.7	26.1
Portion in Iowa	-	101	51	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Portion in Nebraska	-	18	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Nevada	E1	975	241	23.7	521.4	15.8	30.9	299.6	1 279.3	1 209.4	2 470.4	114.0
Las Vegas, NV MSA	E1	408	87	8.1	178.7	5.6	11.0	112.0	442.0	404.3	839.8	34.2
Reno, NV MSA	E1	357	97	9.1	203.8	6.0	11.9	114.7	564.5	523.4	1 075.4	55.1
New Hampshire	E1	2 328	735	107.9	2 508.7	71.5	141.6	1 426.8	8 188.6	4 351.1	12 214.2	339.8
Boston-Lawrence-Salem, MA-NH CMSA	E1	7 598	2 819	425.5	11 645.0	233.9	463.4	5 061.5	29 713.5	20 160.8	49 323.2	1 667.9
Portion in Massachusetts	E1	6 947	2 598	387.4	10 600.0	211.8	420.0	4 509.8	24 945.8	18 467.1	43 163.4	1 538.4
Portion in New Hampshire	-	651	221	38.1	1 044.9	22.1	43.3	551.7	4 767.6	1 693.6	6 159.8	129.5
Boston, MA PMSA	E1	5 001	1 836	272.4	7 679.2	141.1	280.1	3 107.3	17 050.5	12 027.1	28 883.3	1 108.1
Brockton, MA PMSA	E1	353	139	10.9	222.8	7.7	14.5	130.4	568.3	443.4	1 006.0	25.6
Lawrence-Haverhill, MA-NH PMSA	-	742	285	50.9	1 221.8	32.6	63.9	641.4	5 451.9	3 071.5	8 444.7	197.5
Portion in Massachusetts	-	544	236	43.9	1 062.0	28.6	56.5	572.5	3 115.9	2 621.7	5 656.6	177.6
Portion in New Hampshire	-	198	49	7.0	159.7	4.0	7.4	68.8	2 336.0	448.8	2 788.1	19.9
Lowell, MA-NH PMSA	-	442	183	37.5	1 059.1	20.5	41.5	403.2	2 844.4	2 227.7	5 117.3	151.4
Portion in Massachusetts	-	435	181	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Portion in New Hampshire	E1	7	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Nashua, NH PMSA	-	446	170	31.1	883.0	18.0	35.8	481.1	2 427.7	1 241.0	3 365.1	109.4
Salem-Gloucester, MA PMSA	E1	614	206	22.7	579.1	14.0	27.5	298.1	1 370.5	1 150.0	2 506.3	75.9
Manchester, NH MSA	E1	234	84	11.2	234.7	7.9	15.8	135.1	556.7	532.9	1 098.6	27.2
Portsmouth-Dover-Rochester, NH-ME MSA	E1	324	105	19.8	455.5	13.8	27.7	274.6	1 116.5	852.2	1 915.6	77.8
Portion in Maine	-	51	11	3.6	90.9	2.8	6.2	65.8	245.2	290.0	526.4	(D)
Portion in New Hampshire	E1	273	94	16.1	364.6	10.9	21.5	208.8	871.4	562.2	1 389.2	(D)
New Jersey	E1	14 442	5 467	690.8	18 549.9	394.4	780.9	8 389.3	42 526.6	40 273.2	82 451.0	2 312.5
Allentown-Bethlehem, PA-NJ MSA	-	1 091	510	78.1	1 948.4	50.3	94.0	1 032.7	4 693.8	4 427.3	9 083.5	312.7
Portion in New Jersey	-	155	71	9.4	270.1	5.8	10.9	142.3	818.7	675.6	1 525.2	50.2
Portion in Pennsylvania	-	936	439	68.7	1 678.4	44.5	83.1	890.4	3 875.2	3 751.6	7 558.2	262.6
Atlantic City, NJ MSA	E1	250	77	8.4	170.7	6.2	11.9	113.8	668.2	289.8	946.7	25.6
New York-Northern New Jersey-Long Island, NY-NJ- CT CMSA	E1	35 493	11 840	1 393.2	37 365.6	763.9	1 482.2	14 790.6	81 959.2	68 461.7	149 611.3	3 916.0
Portion in Connecticut	E1	2 164	784	131.2	4 197.0	61.7	124.2	1 409.0	7 464.1	5 166.7	12 474.6	379.8
Portion in New Jersey	E1	11 742	4 437	539.0	14 608.1	303.3	602.6	6 293.5	33 159.0	30 752.8	63 705.2	1 826.3
Portion in New York	E2	21 587	6 619	723.0	18 560.6	398.9	755.3	7 088.2	41 336.1	32 542.1	73 431.5	1 709.9
Bergen-Passaic, NJ PMSA	E1	3 721	1 424	162.7	4 245.4	91.3	181.9	1 800.3	8 237.1	6 821.7	14 998.9	380.8
Bridgeport-Milford, CT PMSA	-	989	374	60.6	1 824.0	33.7	69.3	811.0	3 441.1	2 608.2	5 981.0	159.9
Danbury, CT PMSA	E1	408	148	22.6	680.9	11.3	22.8	242.9	1 367.1	954.5	2 278.3	99.2
Jersey City, NJ PMSA	E1	1 385	512	46.0	977.8	32.1	61.4	536.7	2 635.9	2 780.5	5 372.9	212.7
Middlesex-Somerset-Hunterdon, NJ PMSA	-	1 753	748	110.2	3 250.4	57.2	115.9	1 315.4	8 799.1	7 992.8	16 714.2	529.9
Monmouth-Ocean, NJ PMSA	E1	996	262	34.8	888.1	18.8	36.7	349.0	1 794.3	1 488.7	3 282.9	97.5
Nassau-Suffolk, NY PMSA	E1	4 948	1 458	187.1	4 968.0	107.2	210.2	2 181.8	10 914.9	7 284.2	17 948.9	559.5
New York, NY PMSA	E2	16 277	5 021	522.3	13 323.1	282.0	526.6	4 745.0	29 743.2	24 578.6	54 135.9	1 101.6
Newark, NJ PMSA	E1	3 887	1 491	185.3	5 246.3	103.8	206.6	2 292.1	11 692.7	11 689.2	23 335.4	605.3
Norwalk, CT PMSA	E1	301	106	19.1	599.4	7.8	15.1	157.8	930.3	637.1	1 552.9	54.7
Orange County, NY PMSA	E2	362	140	13.6	269.5	9.7	18.6	161.3	675.9	677.4	1 344.3	48.8
Stamford, CT PMSA	E1	466	156	28.8	1 092.6	9.0	17.0	197.2	1 725.5	966.9	2 662.3	66.0
Philadelphia-Wilmington-Trenton, PA-NJ-DE-MD CMSA	-	8 660	3 303	486.8	13 364.4	276.4	543.1	6 141.7	28 940.8	34 805.9	63 287.5	1 647.8
Portion in Delaware	-	424	169	47.7	1 738.3	18.3	37.1	526.8	2 474.0	5 198.8	7 619.3	212.0
Portion in Maryland	-	65	23	2.9	61.5	1.9	3.7	32.6	171.6	121.5	292.3	13.3
Portion in New Jersey	E1	2 297	884	134.1	3 507.1	79.0	155.5	1 839.8	7 880.6	8 554.9	16 273.8	410.4
Portion in Pennsylvania	E1	5 874	2 227	302.2	8 057.6	177.1	346.8	3 742.5	18 414.5	20 930.7	39 102.0	1 012.0
Philadelphia, PA-NJ PMSA	E1	7 414	2 822	375.2	9 981.4	224.4	439.0	4 864.8	23 311.8	26 887.7	49 788.1	1 271.1
Portion in New Jersey	E1	1 540	595	73.0	1 923.7	47.4	92.2	1 123.3	4 898.1	5 958.7	10 688.0	259.1
Portion in Pennsylvania	E1	5 874	2 227	302.2	8 057.6	177.1	346.8	3 742.5	18 414.5	20 930.7	39 102.0	1 012.0
Trenton, NJ PMSA	E1	468	174	39.8	1 058.1	15.9	32.7	377.8	1 359.2	1 237.8	2 593.0	84.0
Vineland-Millville-Bridgeton, NJ PMSA	E1	235	96	15.2	308.4	11.6	22.5	211.2	820.4	723.9	1 537.9	47.8
Wilmington, DE-NJ-MD PMSA	-	542	210	56.6	2 011.3	24.5	48.9	687.9	3 448.6	5 954.8	9 366.6	244.9
Portion in Delaware	-	424	169	47.7	1 738.3	18.3	37.1	526.8	2 474.0	5 198.8	7 619.3	212.0
Portion in Maryland	-	65	23	2.9	61.5	1.9	3.7	32.6	171.6	121.5	292.3	13.3
Portion in New Jersey	-	53	18	6.0	211.6	4.2	8.1	128.5	802.9	634.6	1 455.0	19.6

See footnotes at end of table.

Table 3. Selected Statistics for All Manufacturing Establishments and Auxiliaries by State and Metropolitan Area: 1987—Con.

[Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area	E¹	All establishments² ³		All employees²		Production workers			Value added by manufacture (million dollars)	Cost of materials⁴ (million dollars)	Value of shipments⁴ (million dollars)	New capital expenditures (million dollars)
		Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
New Mexico	E1	1 322	284	34.7	713.3	23.7	47.3	432.5	1 652.9	2 502.5	4 226.4	196.4
Albuquerque, NM MSA	E1	592	138	19.2	421.4	12.8	25.2	251.7	648.1	919.2	1 646.1	98.1
Las Cruces, NM MSA	-	74	21	2.5	43.3	2.0	4.8	29.9	127.3	138.6	262.5	5.5
Santa Fe, NM MSA	E3	130	16	1.5	25.2	1.0	1.8	13.6	59.3	37.4	95.9	3.5
New York	E1	29 608	9 500	1 278.7	33 915.8	723.3	1 403.5	14 408.2	80 033.3	66 098.6	145 656.5	4 296.5
Albany-Schenectady-Troy, NY MSA	-	828	296	48.0	1 233.9	25.7	53.5	575.2	3 109.0	2 494.9	5 512.4	201.7
Binghamton, NY MSA	-	312	128	36.5	1 065.4	14.7	29.2	290.1	2 483.8	1 341.1	3 820.5	110.3
Buffalo-Niagara Falls, NY CMSA	-	1 604	601	103.2	2 896.7	69.4	138.9	1 798.2	7 025.5	7 125.3	14 189.7	368.6
Buffalo, NY PMSA	-	1 310	476	80.4	2 218.4	53.9	107.6	1 366.5	5 255.8	5 633.7	10 907.1	280.8
Niagara Falls, NY PMSA	-	294	125	22.7	678.3	15.5	31.3	431.6	1 769.7	1 491.6	3 282.5	87.9
Elmira, NY MSA	-	102	43	7.4	156.7	5.0	9.7	93.1	349.0	272.8	623.1	19.7
Glens Falls, NY MSA	-	213	71	10.9	254.5	7.8	15.7	161.3	618.3	667.5	1 293.3	71.5
New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA	E1	35 493	11 840	1 393.2	37 365.6	763.9	1 482.2	14 790.6	81 959.2	68 461.7	149 611.3	3 916.0
Portion in Connecticut	E1	2 164	784	131.2	4 197.0	61.7	124.2	1 409.0	7 464.1	5 166.7	12 474.6	379.8
Portion in New Jersey	E1	11 742	4 437	539.0	14 608.1	303.3	602.6	6 293.5	33 159.0	30 752.8	63 705.2	1 826.3
Portion in New York	E2	21 587	6 619	723.0	18 560.6	398.9	755.3	7 088.2	41 336.1	32 542.1	73 431.5	1 709.9
Bergen-Passaic, NJ PMSA	E1	3 721	1 424	162.7	4 245.4	91.3	181.9	1 800.3	8 237.1	6 821.7	14 998.9	380.8
Bridgeport-Milford, CT PMSA	-	989	374	60.6	1 824.0	33.7	69.3	811.0	3 441.1	2 608.2	5 981.0	159.9
Danbury, CT PMSA	E1	408	148	22.6	680.9	11.3	22.8	242.9	1 367.1	954.5	2 278.3	99.2
Jersey City, NJ PMSA	E1	1 385	512	46.0	977.8	32.1	61.4	536.7	2 635.9	2 760.5	5 372.9	212.7
Middlesex-Somerset-Hunterdon, NJ PMSA	-	1 753	748	110.2	3 250.4	57.2	115.9	1 314.5	8 799.1	7 992.8	16 714.2	529.9
Monmouth-Ocean, NJ PMSA	E1	996	262	34.8	888.1	18.8	36.7	349.0	1 794.3	1 488.7	3 282.9	97.5
Nassau-Suffolk, NY PMSA	E1	4 948	1 458	187.1	4 968.0	107.2	210.2	2 181.8	10 914.9	7 284.2	17 948.9	559.5
New York, NY PMSA	E2	16 277	5 021	522.3	13 323.1	282.0	526.6	4 745.0	29 743.2	24 578.6	54 135.9	1 101.6
Newark, NJ PMSA	E1	3 887	1 491	185.3	5 246.3	103.8	206.6	2 292.1	11 692.7	11 689.2	23 335.4	605.3
Norwalk, CT PMSA	E1	301	106	19.1	599.4	7.8	15.1	157.8	930.3	637.1	1 552.9	54.7
Orange County, NY PMSA	E2	362	140	13.6	269.5	9.7	18.6	161.3	675.9	677.4	1 344.3	48.8
Stamford, CT PMSA	E1	466	156	28.8	1 092.6	9.0	17.0	197.2	1 725.5	966.9	2 662.3	66.0
Poughkeepsie, NY MSA	-	207	80	30.9	1 102.8	10.0	19.5	198.1	2 063.3	3 435.3	5 464.8	(D)
Rochester, NY MSA	-	1 391	534	130.2	4 056.9	67.7	136.4	1 669.1	12 409.0	6 551.6	18 962.8	696.7
Syracuse, NY MSA	-	759	286	51.9	1 480.7	31.0	61.6	748.0	3 431.6	4 016.6	7 479.1	256.9
Utica-Rome, NY MSA	E1	367	121	23.7	552.7	15.8	31.0	311.8	1 174.9	1 258.7	2 449.0	63.7
North Carolina	-	10 995	4 767	842.4	16 293.4	637.3	1 258.8	10 293.0	47 007.4	48 762.0	95 317.3	2 958.7
Asheville, NC MSA	E1	285	127	18.7	353.5	13.7	26.6	220.7	927.0	853.2	1 773.0	(D)
Burlington, NC MSA	E1	303	163	24.3	425.6	19.1	37.1	283.5	942.5	1 318.3	2 262.3	72.7
Charlotte-Gastonia-Rock Hill, NC-SC MSA	-	2 276	941	155.4	3 223.5	111.3	225.7	1 888.6	8 153.6	9 654.4	17 637.7	530.4
Portion in North Carolina	-	2 074	857	142.3	2 925.4	101.6	205.5	1 701.8	7 427.2	8 844.9	16 112.0	461.2
Portion in South Carolina	-	202	84	13.1	298.1	9.7	20.2	186.8	726.3	809.5	1 526.0	69.2
Fayetteville, NC MSA	-	146	64	11.6	274.8	8.8	17.0	196.8	1 002.8	1 056.9	2 051.4	66.6
Greensboro-Winston-Salem-High Point, NC MSA	-	1 977	885	149.9	3 188.0	106.0	203.5	1 870.7	10 910.7	8 048.7	18 949.3	591.3
Hickory, NC MSA	-	852	447	65.8	1 128.0	54.3	105.0	790.2	2 230.7	2 615.5	4 821.1	132.8
Jacksonville, NC MSA	-	48	14	3.0	40.1	2.6	4.9	31.2	116.2	136.9	251.5	(D)
Raleigh-Durham, NC MSA	-	834	279	59.4	1 491.7	30.5	58.6	561.4	4 728.5	4 638.2	9 346.1	256.7
Wilmington, NC MSA	-	154	54	11.1	285.0	7.5	15.7	172.7	1 009.1	1 017.9	2 004.5	81.0
North Dakota	-	627	139	15.4	310.4	10.4	20.4	180.1	979.0	1 616.6	2 574.0	47.0
Bismarck, ND MSA	-	83	23	1.9	42.7	1.1	2.2	22.3	149.1	455.0	600.6	7.8
Fargo-Moorhead, ND-MN MSA	-	155	48	4.9	97.4	3.3	6.2	55.8	256.0	415.3	666.6	15.9
Portion in Minnesota	-	33	7	.9	22.3	.6	1.1	11.1	27.2	77.4	104.4	(D)
Portion in North Dakota	-	122	41	4.0	75.1	2.7	5.1	44.7	228.7	337.9	562.1	(D)
Grand Forks, ND MSA	E1	48	11	1.5	27.6	1.1	2.2	17.5	97.6	102.4	199.5	(D)
Ohio	-	17 544	6 882	1 100.2	30 765.2	713.4	1 447.9	17 490.4	71 707.4	87 237.8	158 559.9	4 742.2
Canton, OH MSA	-	643	237	43.5	1 132.3	30.7	62.1	724.9	2 970.4	3 187.8	6 122.3	144.9
Cincinnati-Hamilton, OH-KY-IN CMSA	-	2 530	1 014	174.4	5 130.7	97.3	197.2	2 425.3	12 831.7	13 026.7	25 735.1	770.7
Portion in Indiana	-	35	14	2.8	73.7	2.2	4.3	52.1	199.3	190.0	390.7	13.1
Portion in Kentucky	E1	286	122	12.5	288.0	8.1	16.0	164.8	655.4	781.4	1 430.4	48.9
Portion in Ohio	-	2 209	878	159.1	4 768.9	87.0	176.8	2 208.4	11 977.1	12 055.4	23 914.0	708.6
Cincinnati, OH-KY-IN PMSA	-	2 242	903	151.9	4 437.0	82.0	165.5	1 967.9	11 335.0	11 338.2	22 532.6	701.0
Portion in Indiana	-	35	14	2.8	73.7	2.2	4.3	52.1	199.3	190.0	390.7	(D)
Portion in Kentucky	E1	286	122	12.5	288.0	8.1	16.0	164.8	655.4	781.4	1 430.4	(D)
Portion in Ohio	-	1 921	767	136.6	4 075.2	71.6	145.1	1 750.9	10 480.4	10 366.9	20 711.7	638.9
Hamilton-Middletown, OH PMSA	-	288	111	22.5	693.7	15.3	31.7	457.4	1 496.7	1 688.5	3 202.3	69.7
Cleveland-Akron-Lorain, OH CMSA	-	5 762	2 185	296.4	8 643.9	176.7	359.4	4 352.0	17 262.2	19 958.0	37 097.1	1 155.4
Akron, OH PMSA	-	1 225	481	64.6	1 979.4	35.3	70.4	772.5	2 900.9	2 671.4	5 491.4	194.2
Cleveland, OH PMSA	E1	4 155	1 562	203.3	5 787.8	121.1	247.3	2 976.9	10 926.3	11 161.9	22 055.9	841.6
Lorain-Elyria, OH PMSA	-	382	142	28.5	876.7	20.3	41.7	602.6	3 435.0	6 124.7	9 549.2	119.6
Columbus, OH MSA	-	1 573	607	98.7	2 689.6	62.7	126.2	1 463.5	7 079.1	8 900.7	15 936.6	511.4
Dayton-Springfield, OH MSA	-	1 588	627	105.9	3 028.7	63.5	127.3	1 651.5	6 284.6	7 237.7	13 541.5	380.6
Huntington-Ashland, WV-KY-OH MSA	-	275	90	16.6	467.0	12.2	23.9	323.5	1 263.7	2 493.4	3 754.1	91.8
Portion in Kentucky	-	74	31	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Portion in Ohio	-	46	11	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Portion in West Virginia	-	155	48	7.2	184.7	4.9	9.7	115.2	439.7	341.1	789.9	42.3
Lima, OH MSA	-	247	98	21.3	601.0	15.4	31.8	403.7	1 713.0	4 030.3	5 792.4	97.9

See footnotes at end of table.

Table 3. Selected Statistics for All Manufacturing Establishments and Auxiliaries by State and Metropolitan Area: 1987—Con.

[Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area	E ¹	All establishments ^{2 3}		All employees ²		Production workers			Value added by manu- facture (million dollars)	Cost of materials ⁴ (million dollars)	Value of shipments ⁴ (million dollars)	New capital expenditures (million dollars)
		Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
Ohio—Con.												
Mansfield, OH MSA	-	219	95	18.1	511.0	13.6	28.5	362.2	775.7	1 120.9	1 896.4	239.9
Parkersburg-Marietta, WV-OH MSA	-	195	72	14.4	420.4	9.3	19.2	243.0	1 430.2	1 454.3	2 857.4	128.7
Portion in Ohio	-	106	32	5.1	131.4	3.4	6.9	78.2	400.1	659.7	1 040.8	(D)
Portion in West Virginia	-	89	40	9.3	289.0	5.9	12.3	164.9	1 030.1	794.6	1 816.6	99.4
Steubenville-Weirton, OH-WV MSA	-	107	51	17.6	501.0	13.6	28.0	372.9	1 316.1	1 856.3	3 176.7	111.0
Portion in Ohio	-	54	16	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Portion in West Virginia	-	53	35	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Toledo, OH MSA	-	988	396	63.2	2 002.2	42.9	92.2	1 204.7	4 925.1	7 515.1	12 446.2	295.0
Wheeling, WV-OH MSA	E1	139	48	5.3	117.2	3.5	6.7	69.9	357.3	513.2	865.7	10.0
Portion in Ohio	E1	54	14	2.0	42.9	1.4	2.9	29.4	204.8	338.6	539.3	2.1
Portion in West Virginia	-	85	34	3.3	74.3	2.1	3.8	40.5	152.5	174.6	326.4	(D)
Youngstown-Warren, OH MSA	-	637	244	49.5	1 502.3	37.8	74.0	1 093.0	2 889.3	5 239.5	8 107.2	151.6
Oklahoma	-	3 728	1 018	151.2	3 629.3	104.8	207.0	2 195.6	9 856.9	14 288.8	24 073.9	538.4
Enid, OK MSA	-	56	9	1.3	28.4	.8	1.7	16.6	92.4	177.1	278.5	1.4
Fort Smith, AR-OK MSA	-	298	124	25.9	527.6	21.0	41.6	370.6	1 529.1	1 928.1	3 402.1	86.2
Portion in Arkansas	-	277	121	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Portion in Oklahoma	-	21	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Lawton, OK MSA	-	52	14	3.3	83.8	2.5	5.2	61.5	337.3	247.3	583.4	7.9
Oklahoma City, OK MSA	-	1 071	286	48.2	1 167.9	32.9	61.8	721.0	3 653.4	5 718.8	9 348.3	140.9
Tulsa, OK MSA	E1	1 322	369	48.7	1 324.3	30.3	62.8	692.7	2 735.9	3 212.2	5 932.8	159.7
Oregon	E1	6 353	1 643	202.9	4 767.2	144.3	280.0	2 948.6	11 610.3	13 831.1	25 351.7	735.4
Eugene-Springfield, OR MSA	E2	769	179	20.3	444.2	15.5	29.6	310.1	1 060.3	1 554.1	2 617.9	56.8
Medford, OR MSA	E1	326	74	8.1	179.4	6.4	12.6	134.9	451.5	714.6	1 163.2	25.7
Portland-Vancouver, OR-WA CMSA	E1	2 961	839	109.0	2 758.7	69.4	134.9	1 469.6	6 445.4	6 888.9	13 254.7	424.6
Portion in Oregon	E1	2 631	744	94.1	2 376.9	58.5	113.4	1 219.2	5 348.5	5 553.1	10 847.5	356.9
Portion in Washington	E1	330	95	14.9	381.8	11.0	21.5	250.3	1 096.9	1 335.7	2 407.2	67.8
Portland, OR PMSA	E1	2 631	744	94.1	2 376.9	58.5	113.4	1 219.2	5 348.5	5 553.1	10 847.5	356.9
Vancouver, WA PMSA	E1	330	95	14.9	381.8	11.0	21.5	250.3	1 096.9	1 335.7	2 407.2	67.8
Salem, OR MSA	E1	463	135	13.7	256.1	10.4	19.5	167.1	663.5	866.8	1 500.6	43.4
Pennsylvania	-	17 844	7 233	1 037.5	25 301.6	681.9	1 330.1	13 731.1	57 605.2	61 606.1	118 651.3	3 440.5
Allentown-Bethlehem, PA-NJ MSA	-	1 091	510	78.1	1 948.4	50.3	94.0	1 032.7	4 693.8	4 427.3	9 083.5	312.7
Portion in New Jersey	-	155	71	9.4	270.1	5.8	10.9	142.3	818.7	675.6	1 525.2	50.2
Portion in Pennsylvania	-	936	439	68.7	1 678.4	44.5	83.1	890.4	3 875.2	3 751.6	7 558.2	262.6
Altoona, PA MSA	-	145	61	10.3	204.0	7.8	14.2	139.6	607.1	528.8	1 127.5	31.0
Erie, PA MSA	-	538	229	34.0	856.6	22.7	46.6	489.1	1 922.4	1 511.9	3 382.3	100.8
Harrisburg-Lebanon-Carlisle, PA MSA	-	690	312	53.6	1 244.9	34.1	65.6	647.3	3 197.4	3 170.7	6 332.3	176.9
Johnstown, PA MSA	-	280	92	12.7	232.8	10.0	18.7	162.9	424.2	659.9	1 081.8	23.4
Lancaster, PA MSA	-	821	371	60.0	1 378.0	42.5	83.3	838.2	3 883.7	3 597.2	7 429.1	264.7
Philadelphia-Wilmington-Trenton, PA-NJ-DE-MD CMSA	-	8 660	3 303	486.8	13 364.4	276.4	543.1	6 141.7	28 940.8	34 805.9	63 287.5	1 647.8
Portion in Delaware	-	424	169	47.7	1 738.3	18.3	37.1	526.8	2 474.0	5 198.8	7 619.3	212.0
Portion in Maryland	-	65	23	2.9	61.5	1.9	3.7	32.6	171.6	121.5	292.3	13.3
Portion in New Jersey	E1	2 297	884	134.1	3 507.1	79.0	155.5	1 839.8	7 880.6	8 554.9	16 273.8	410.4
Portion in Pennsylvania	E1	5 874	2 227	302.2	8 057.6	177.1	346.8	3 742.5	18 414.5	20 930.7	39 102.0	1 012.0
Philadelphia, PA-NJ PMSA	E1	7 414	2 822	375.2	9 981.4	224.4	439.0	4 864.8	23 311.8	26 887.7	49 788.1	1 271.1
Portion in New Jersey	E1	1 540	595	73.0	1 923.7	47.4	92.2	1 122.3	4 898.1	5 958.7	10 688.0	259.1
Portion in Pennsylvania	E1	5 874	2 227	302.2	8 057.6	177.1	346.8	3 742.5	18 414.5	20 930.7	39 102.0	1 012.0
Trenton, NJ PMSA	E1	468	174	39.8	1 058.1	15.9	32.7	377.8	1 359.2	1 237.8	2 593.0	84.0
Vineland-Millville-Bridgeton, NJ PMSA	E1	235	96	15.2	308.4	11.6	22.5	211.2	820.4	723.9	1 537.9	47.8
Wilmington, DE-NJ-MD PMSA	-	542	210	56.6	2 011.3	24.5	48.9	687.9	3 448.6	5 954.8	9 366.6	244.9
Portion in Delaware	-	424	169	47.7	1 738.3	18.3	37.1	526.8	2 474.0	5 198.8	7 619.3	212.0
Portion in Maryland	-	65	23	2.9	61.5	1.9	3.7	32.6	171.6	121.5	292.3	13.3
Portion in New Jersey	-	53	18	6.0	211.6	4.2	8.1	128.5	802.9	634.6	1 455.0	19.6
Pittsburgh-Beaver Valley, PA CMSA	-	2 690	937	133.4	3 849.0	74.9	144.0	1 745.3	6 322.8	7 890.4	14 198.2	345.2
Beaver County, PA PMSA	-	172	63	9.8	258.2	7.0	12.6	167.6	562.4	1 178.9	1 764.9	30.8
Pittsburgh, PA PMSA	-	2 518	874	123.7	3 590.7	67.9	131.4	1 577.7	5 760.4	6 711.6	12 433.2	314.4
Reading, PA MSA	-	624	295	47.3	1 180.5	34.5	69.8	752.5	2 628.6	2 620.1	5 227.5	184.5
Scranton--Wilkes-Barre, PA MSA	-	1 166	565	69.3	1 324.3	53.2	101.7	900.2	3 522.9	3 284.3	6 812.9	221.7
Sharon, PA MSA	-	169	62	10.4	253.2	7.5	14.1	172.7	630.7	888.2	1 521.5	30.8
State College, PA MSA	-	141	54	7.8	153.9	5.6	10.6	94.2	333.0	328.3	663.5	32.1
Williamsport, PA MSA	-	231	112	17.2	344.7	12.5	23.5	205.9	950.4	901.9	1 814.7	45.9
York, PA MSA	-	759	393	59.2	1 360.7	41.2	83.5	808.6	2 975.3	2 970.9	5 962.0	263.6
Rhode Island	E1	2 878	899	112.0	2 292.0	76.3	149.4	1 252.3	4 787.5	4 418.0	9 166.4	276.4
New London-Norwich, CT-RI MSA	-	292	109	35.3	1 003.0	19.2	40.9	459.2	2 044.6	1 028.9	3 051.0	89.6
Portion in Connecticut	-	237	93	33.5	962.4	17.8	38.0	433.3	1 959.1	928.6	2 863.6	86.3
Portion in Rhode Island	-	55	16	1.9	40.6	1.4	2.8	25.9	85.5	100.3	187.4	(D)

See footnotes at end of table.

Table 3. Selected Statistics for All Manufacturing Establishments and Auxiliaries by State and Metropolitan Area: 1987—Con.

[Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area	E¹	All establishments² ³		All employees²		Production workers			Value added by manufacture (million dollars)	Cost of materials⁴ (million dollars)	Value of shipments⁴ (million dollars)	New capital expenditures (million dollars)
		Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
Rhode Island—Con.												
Providence-Pawtucket-Fall River, RI-MA CMSA	E1	3 338	1 108	134.4	2 618.3	93.6	182.2	1 458.4	5 493.1	5 386.3	10 821.3	344.2
Portion in Massachusetts	E1	595	250	35.6	674.5	25.8	49.9	393.7	1 440.1	1 472.0	2 900.9	88.8
Portion in Rhode Island	E1	2 743	858	98.8	1 943.8	67.8	132.3	1 064.7	4 053.0	3 914.4	7 920.5	255.4
Fall River, MA-RI PMSA	E1	279	120	16.9	272.9	13.8	25.7	191.4	610.4	509.9	1 119.6	32.4
Portion in Massachusetts	E1	266	120	16.9	272.4	13.7	25.7	191.0	609.5	508.6	1 117.4	(D)
Portion in Rhode Island	E9	13	—	(Z)	.5	(Z)	.1	.4	.9	1.3	2.2	(D)
Pawtucket-Woonsocket-Attleboro, RI-MA PMSA ..	E1	986	402	52.6	1 080.0	35.7	70.7	582.3	2 183.5	2 400.6	4 535.6	119.7
Portion in Massachusetts	E1	329	130	18.7	402.1	12.1	24.3	202.7	830.6	963.4	1 783.4	56.4
Portion in Rhode Island	E1	657	272	33.9	677.9	23.2	46.4	379.6	1 352.9	1 437.2	2 752.2	63.3
Providence, RI PMSA	E1	2 073	586	64.8	1 265.3	44.1	85.8	684.8	2 699.2	2 475.8	5 166.1	192.0
South Carolina	-	4 534	1 889	365.8	7 323.9	279.6	566.2	4 742.2	19 111.9	22 300.3	41 211.7	1 586.0
Anderson, SC MSA	-	204	89	19.9	386.7	16.5	33.0	289.1	812.7	1 231.9	2 026.9	57.4
Augusta, GA-SC MSA	-	347	159	38.9	999.6	24.5	50.5	521.2	2 830.5	2 293.1	5 047.9	192.3
Portion in Georgia	-	251	114	19.0	427.8	12.8	26.0	235.5	1 345.5	1 551.8	2 874.2	145.4
Portion in South Carolina	-	96	45	19.9	571.8	11.7	24.4	285.7	1 485.0	741.3	2 173.8	46.9
Charleston, SC MSA	-	389	128	20.3	474.7	13.9	27.3	263.6	1 498.8	2 006.3	3 507.8	125.1
Charlotte-Gastonia-Rock Hill, NC-SC MSA	-	2 276	941	155.4	3 223.5	111.3	225.7	1 888.6	8 153.6	9 654.4	17 637.7	530.4
Portion in North Carolina	-	2 074	857	142.3	2 925.4	101.6	205.5	1 701.8	7 427.2	8 844.9	16 112.0	461.2
Portion in South Carolina	-	202	84	13.1	298.1	9.7	20.2	186.8	726.3	809.5	1 526.0	69.2
Columbia, SC MSA	-	448	164	27.0	607.8	18.3	36.1	336.5	1 684.9	1 965.3	3 622.0	236.1
Florence, SC MSA	-	143	66	11.5	217.3	8.7	17.8	146.0	581.6	628.8	1 205.9	54.1
Greenville-Spartanburg, SC MSA	-	1 172	537	99.2	2 011.4	74.2	150.3	1 255.5	4 967.5	5 644.2	10 545.5	392.4
South Dakota	E1	764	231	27.5	497.9	19.9	38.8	312.6	1 476.1	2 406.8	3 858.7	79.3
Rapid City, SD MSA	-	102	32	3.5	68.2	2.4	5.0	37.4	161.0	237.4	398.2	6.2
Sioux Falls, SD MSA	-	138	50	8.9	164.8	6.3	11.5	100.4	463.8	1 063.2	1 518.2	20.7
Tennessee	-	6 864	2 799	484.9	9 869.2	359.2	707.4	6 282.6	27 049.7	30 819.7	57 752.9	1 904.7
Chattanooga, TN-GA MSA	-	644	292	44.2	887.1	32.5	65.5	559.4	2 298.7	3 479.4	5 744.3	178.2
Portion in Georgia	-	146	73	11.4	193.8	9.2	19.1	140.5	550.1	1 431.7	1 961.1	53.6
Portion in Tennessee	-	498	219	32.8	693.3	23.3	46.4	418.9	1 748.5	2 047.7	3 783.2	124.6
Clarksville-Hopkinsville, TN-KY MSA	-	117	46	9.3	177.8	7.0	13.2	115.7	461.4	502.5	945.1	28.1
Portion in Kentucky	-	47	23	4.0	72.6	3.2	6.2	52.4	165.9	230.3	396.3	(D)
Portion in Tennessee	-	70	23	5.3	105.2	3.8	7.0	63.3	295.5	272.2	548.8	(D)
Jackson, TN MSA	-	100	44	8.5	191.4	6.2	13.2	121.0	621.1	701.5	1 341.2	(D)
Johnson City-Kingsport-Bristol, TN-VA MSA	-	494	199	52.9	1 243.5	36.7	73.3	754.2	3 105.8	3 547.7	6 594.6	318.4
Portion in Tennessee	-	383	148	43.3	1 067.9	29.9	60.3	644.0	2 691.4	2 863.8	5 519.2	277.7
Portion in Virginia	-	111	51	9.5	175.6	6.9	13.0	110.2	414.5	683.9	1 075.4	40.6
Knoxville, TN MSA	-	796	267	48.8	1 061.0	34.2	66.4	617.8	2 621.8	2 750.6	5 336.3	191.7
Memphis, TN-AR-MS MSA	-	1 178	520	60.3	1 330.8	40.1	79.8	741.9	4 114.2	5 269.3	9 347.3	228.2
Portion in Arkansas	E1	48	20	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Portion in Mississippi	E1	97	52	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Portion in Tennessee	-	1 033	448	52.3	1 183.5	34.5	69.0	655.7	3 734.8	4 686.4	8 386.6	206.5
Nashville, TN MSA	-	1 506	545	88.6	2 051.6	60.6	121.0	1 236.2	4 989.5	6 668.1	11 727.8	342.3
Texas	-	20 370	6 183	914.0	23 240.9	560.8	1 125.2	11 443.9	63 899.1	99 496.7	162 750.9	4 548.0
Abilene, TX MSA	-	122	33	4.9	93.6	2.9	5.5	44.6	330.7	577.1	900.6	11.8
Amarillo, TX MSA	-	184	49	11.0	243.0	8.1	16.5	162.7	328.0	2 771.7	3 122.9	18.7
Austin, TX MSA	-	823	216	42.5	1 150.2	20.7	40.8	394.7	2 917.2	2 539.3	5 371.6	282.3
Beaumont-Port Arthur, TX MSA	-	336	108	25.6	881.6	17.1	34.7	549.0	3 214.9	10 993.3	14 079.2	367.4
Brownsville-Harlingen, TX MSA	E1	168	57	8.9	122.2	6.9	13.4	85.4	348.3	392.1	730.5	34.9
Bryan-College Station, TX MSA	E2	87	24	2.4	49.4	1.6	3.4	28.5	136.7	147.2	283.2	7.8
Corpus Christi, TX MSA	-	258	73	11.0	293.3	7.1	14.5	176.5	1 324.7	5 468.9	6 756.2	91.6
Dallas-Fort Worth, TX CMSA	-	6 491	2 134	329.3	8 886.8	183.6	371.1	3 831.7	19 641.4	17 241.9	36 470.5	1 236.1
Dallas, TX PMSA	E1	4 352	1 411	219.3	5 921.3	117.2	234.3	2 344.8	12 667.0	10 495.7	23 027.9	811.6
Fort Worth-Arlington, TX PMSA	-	2 139	723	110.0	2 965.4	66.4	136.8	1 466.9	6 974.4	6 746.2	13 442.6	424.5
El Paso, TX MSA	-	546	212	35.2	522.6	27.1	51.0	342.0	1 489.2	2 991.0	4 455.4	65.6
Houston-Galveston-Brazoria, TX CMSA	-	4 777	1 377	183.2	5 612.1	97.2	201.1	2 453.9	18 596.9	34 037.9	52 662.1	1 454.1
Brazoria, TX PMSA	-	171	57	14.4	550.6	6.6	13.5	239.1	2 788.8	4 936.8	7 732.6	271.5
Galveston-Texas City, TX PMSA	-	138	37	8.5	298.2	5.7	11.7	188.4	5 682.5	5 682.5	7 346.9	117.5
Houston, TX PMSA	-	4 468	1 283	160.2	4 763.3	64.9	175.9	2 026.4	14 155.2	23 418.6	37 582.6	1 065.1
Killeen-Temple, TX MSA	-	148	55	7.4	143.9	5.5	10.9	90.8	454.4	379.9	828.9	24.7
Laredo, TX MSA	E3	57	14	1.4	20.4	8.0	1.8	10.9	73.2	49.6	122.4	2.5
Longview-Marshall, TX MSA	-	280	107	15.3	374.5	10.7	21.1	228.4	1 065.7	1 281.5	2 340.5	87.6
Lubbock, TX MSA	E1	270	63	6.9	141.2	4.2	8.0	69.7	410.6	472.0	867.4	17.8
McAllen-Edinburg-Mission, TX MSA	E2	190	64	10.4	138.9	8.2	15.9	91.6	338.4	391.3	734.1	20.5
Midland, TX MSA	E1	111	23	2.5	72.9	1.2	2.5	26.8	135.0	78.7	214.8	4.1
Odessa, TX MSA	-	223	54	4.0	107.3	2.2	4.6	48.8	386.5	578.8	963.0	31.2
San Angelo, TX MSA	E2	102	28	4.1	68.0	2.9	5.1	44.0	204.1	272.9	478.7	9.6
San Antonio, TX MSA	E1	1 193	365	44.1	838.3	29.8	58.5	465.2	2 127.7	2 367.3	4 500.9	96.3
Sherman-Denison, TX MSA	-	127	50	10.4	273.9	7.3	15.1	158.1	774.0	787.7	1 591.8	54.8

See footnotes at end of table.

Table 3. Selected Statistics for All Manufacturing Establishments and Auxiliaries by State and Metropolitan Area: 1987—Con.

[Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area	E ¹	All establishments ^{2 3}		All employees ²		Production workers			Value added by manufacture (million dollars)	Cost of materials ⁴ (million dollars)	Value of shipments ⁴ (million dollars)	New capital expenditures (million dollars)
		Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
Texas—Con.												
Texarkana, TX-Texarkana, AR MSA	-	106	34	7.3	171.9	5.3	9.4	111.7	465.8	390.1	847.2	38.2
Portion in Arkansas	-	29	9	2.4	64.9	1.8	3.5	46.9	193.8	165.3	347.3	(D)
Portion in Texas	-	77	25	4.9	107.0	3.5	5.9	64.8	272.0	224.9	499.9	(D)
Tyler, TX MSA	-	172	49	11.5	296.8	7.8	13.8	182.0	634.6	884.6	1 521.0	32.9
Victoria, TX MSA	-	58	14	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Waco, TX MSA	E1	249	99	13.8	263.5	10.0	19.7	165.2	837.9	780.5	1 635.1	70.6
Wichita Falls, TX MSA	-	155	39	7.9	182.6	5.8	11.5	122.5	563.7	373.1	949.0	35.9
Utah	E1	2 083	611	88.8	2 073.1	54.8	107.6	1 002.3	4 882.9	5 468.9	10 286.7	403.5
Provo-Orem, UT MSA	E1	276	76	9.0	167.2	6.4	12.2	104.4	334.3	309.9	629.4	35.3
Salt Lake City-Ogden, UT MSA	E1	1 463	452	61.0	1 422.2	36.3	71.6	654.1	3 395.3	3 620.6	6 985.1	267.4
Vermont	E1	1 262	333	48.5	1 140.0	30.6	58.3	551.6	2 543.1	2 201.8	4 752.7	334.4
Burlington, VT MSA	-	188	52	16.4	504.5	7.5	13.1	136.4	1 052.2	809.4	1 869.1	(D)
Virginia	-	6 137	2 230	429.2	9 740.1	305.3	600.3	5 728.2	26 857.3	25 453.9	51 902.1	1 542.7
Charlottesville, VA MSA	-	146	40	9.6	204.4	6.1	12.7	101.6	508.1	348.1	848.5	27.2
Danville, VA MSA	-	113	48	17.1	335.6	13.9	28.5	254.2	782.9	1 015.7	1 790.9	28.8
Johnson City-Kingsport-Bristol, TN-VA MSA	-	494	199	52.8	1 243.5	36.7	73.3	754.2	3 105.8	3 547.7	6 594.6	318.4
Portion in Tennessee	-	383	148	43.3	1 067.9	29.9	60.3	644.0	2 691.4	2 863.8	5 519.2	277.7
Portion in Virginia	-	111	51	9.5	175.6	6.9	13.0	110.2	414.5	683.9	1 075.4	40.6
Lynchburg, VA MSA	-	229	93	21.0	474.1	14.6	29.0	285.8	1 461.7	956.3	2 380.8	55.9
Norfolk-Virginia Beach-Newport News, VA MSA	-	912	316	66.0	1 625.6	51.4	100.1	1 112.7	4 285.3	4 819.8	9 075.1	265.7
Richmond-Petersburg, VA MSA	-	1 002	383	66.4	1 952.3	39.1	77.0	968.6	6 833.0	4 979.5	11 776.1	359.1
Roanoke, VA MSA	-	287	124	20.3	435.3	13.8	27.5	251.6	1 099.8	930.8	2 012.2	61.2
Washington, DC-MD-VA MSA	E1	2 744	767	103.2	2 992.4	44.2	88.3	957.9	6 788.0	4 193.5	10 859.3	352.0
Portion in District of Columbia	E1	486	124	17.0	494.1	5.2	10.7	118.8	1 525.4	615.0	2 128.3	43.6
Portion in Maryland	E1	1 223	358	44.1	1 162.7	22.7	45.4	464.1	2 377.3	2 044.3	4 435.6	152.4
Portion in Virginia	E1	1 035	285	42.1	1 335.6	16.3	32.3	375.0	2 885.2	1 534.2	4 295.4	156.0
Washington	-	7 630	1 950	309.7	8 841.6	184.2	353.5	4 262.0	19 016.1	28 698.3	46 531.8	1 244.8
Bellingham, WA MSA	-	232	63	7.3	187.6	5.6	11.0	131.4	738.5	2 129.2	2 865.4	73.5
Bremerton, WA MSA	E5	114	18	1.5	29.2	1.0	1.8	16.8	61.2	72.3	133.1	3.0
Olympia, WA MSA	E1	148	32	3.4	81.7	2.7	5.6	60.8	239.4	370.2	609.8	24.0
Portland-Vancouver, OR-WA CMSA	E1	2 961	839	109.0	2 758.7	69.4	134.9	1 469.6	6 445.4	6 888.9	13 254.7	424.6
Portion in Oregon	E1	2 631	744	94.1	2 376.9	58.5	113.4	1 219.2	5 348.5	5 553.1	10 847.5	356.9
Portion in Washington	E1	330	95	14.9	381.8	11.0	21.5	250.3	1 096.9	1 335.7	2 407.2	67.8
Portland, OR PMSA	E1	2 631	744	94.1	2 376.9	58.5	113.4	1 219.2	5 348.5	5 553.1	10 847.5	356.9
Vancouver, WA PMSA	E1	330	95	14.9	381.8	11.0	21.5	250.3	1 096.9	1 335.7	2 407.2	67.8
Richland-Kennewick-Pasco, WA MSA	-	120	24	15.4	493.2	8.0	12.2	195.5	1 220.6	1 023.3	2 246.4	20.7
Seattle-Tacoma, WA CMSA	-	4 108	1 127	194.2	5 926.6	100.8	194.7	2 406.4	10 895.9	16 153.2	25 931.6	633.5
Seattle, WA PMSA	-	3 464	934	174.5	5 448.7	87.6	169.4	2 132.3	9 820.1	14 686.8	23 363.4	549.2
Tacoma, WA PMSA	E1	644	193	19.7	477.9	13.2	25.2	274.1	1 075.8	1 466.4	2 567.9	84.3
Spokane, WA MSA	-	497	130	19.6	462.0	12.6	24.2	248.0	1 053.0	1 324.4	2 359.4	61.7
Yakima, WA MSA	-	231	86	8.0	167.7	6.1	11.9	114.1	464.8	814.8	1 276.4	28.3
West Virginia	-	1 619	488	83.8	2 107.6	58.8	115.4	1 312.3	5 404.4	5 980.0	11 560.8	434.8
Charleston, WV MSA	-	165	48	10.7	340.9	5.2	10.7	147.3	821.1	986.3	2 001.1	40.8
Cumberland, MD-WV MSA	E1	91	34	6.0	156.4	3.8	7.3	92.3	388.3	280.9	678.2	(D)
Portion in Maryland	-	69	23	4.3	114.3	3.0	6.1	81.4	354.3	252.9	617.5	(D)
Portion in West Virginia	E1	22	11	1.7	42.1	.8	1.3	10.9	34.0	27.9	60.7	(D)
Huntington-Ashland, WV-KY-OH MSA	-	275	90	16.6	467.0	12.2	23.9	323.5	1 263.7	2 493.4	3 754.1	91.8
Portion in Kentucky	-	74	31	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Portion in Ohio	-	46	11	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Portion in West Virginia	-	155	48	7.2	184.7	4.9	9.7	115.2	439.7	341.1	789.9	42.3
Parkersburg-Marietta, WV-OH MSA	-	195	72	14.4	420.4	9.3	19.2	243.0	1 430.2	1 454.3	2 857.4	128.7
Portion in Ohio	-	106	32	5.1	131.4	3.4	6.9	78.2	400.1	659.7	1 040.8	(D)
Portion in West Virginia	-	89	40	9.3	289.0	5.9	12.3	164.9	1 030.1	794.6	1 816.6	99.4
Steubenville-Weirton, OH-WV MSA	-	107	51	17.6	501.0	13.6	28.0	372.9	1 316.1	1 856.3	3 176.7	111.0
Portion in Ohio	-	54	16	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Portion in West Virginia	-	53	35	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Wheeling, WV-OH MSA	E1	139	48	5.3	117.2	3.5	6.7	69.9	357.3	513.2	865.7	10.0
Portion in Ohio	E1	54	14	2.0	42.9	1.4	2.9	29.4	204.8	338.6	539.3	2.1
Portion in West Virginia	-	85	34	3.3	74.3	2.1	3.8	40.5	152.5	174.6	326.4	(D)
Wisconsin	-	9 157	3 460	514.0	12 763.4	349.9	693.6	7 615.5	31 653.0	38 051.0	69 595.8	2 027.4
Appleton-Oshkosh-Neenah, WI MSA	-	559	267	49.7	1 302.2	32.7	65.6	764.1	3 085.7	3 898.3	6 938.7	254.7
Chicago-Gary-Lake County, IL-IN-WI CMSA	-	14 350	5 678	755.4	20 580.3	454.4	923.8	10 211.5	49 773.3	51 079.7	100 463.9	2 921.2
Portion in Illinois	E1	13 707	5 432	690.1	18 507.8	406.0	823.7	8 753.5	43 778.8	41 385.8	84 913.6	2 349.6
Portion in Indiana	-	483	192	52.7	1 696.5	38.7	80.1	1 190.4	5 199.2	8 123.1	13 189.5	550.6
Portion in Wisconsin	-	160	54	12.6	376.0	9.7	20.0	267.6	795.3	1 570.7	2 360.7	20.9
Aurora-Elgin, IL PMSA	E1	800	331	38.8	977.8	25.8	52.3	557.2	2 723.1	2 424.8	5 147.7	163.7
Chicago, IL PMSA	E1	11 742	4 658	579.9	15 458.7	343.9	697.6	7 369.8	36 217.2	32 871.7	68 933.3	1 780.5
Gary-Hammond, IN PMSA	-	483	192	52.7	1 696.5	38.7	80.1	1 190.4	5 199.2	8 123.1	13 189.5	550.6
Joliet, IL PMSA	-	405	154	20.5	595.4	14.2	29.6	376.2	1 916.1	4 152.6	6 014.1	150.0
Kenosha, WI PMSA	-	160	54	12.6	376.0	9.7	20.0	267.6	795.3	1 570.7	2 360.7	20.9
Lake County, IL PMSA	-	760	289	50.9	1 476.1	22.1	44.2	450.4	2 920.7	1 935.3	4 816.3	255.4

See footnotes at end of table.

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Geographic area	E ¹	All establishments ^{2 3}		All employees ²		Production workers			Value added by manufacture (million dollars)	Cost of materials ⁴ (million dollars)	Value of shipments ⁴ (million dollars)	New capital expenditures (million dollars)
		Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
Wisconsin—Con.												
Duluth, MN-WI MSA	E1	285	62	7.9	166.2	4.2	7.7	81.0	361.1	473.8	839.5	(D)
Portion in Minnesota	E2	231	50	6.6	138.5	3.3	6.0	62.4	271.3	218.8	493.7	(D)
Portion in Wisconsin	-	54	12	1.2	27.6	.9	1.7	18.6	89.8	255.0	345.8	(D)
Eau Claire, WI MSA	-	192	66	10.3	243.7	7.3	14.3	149.1	800.9	789.9	1 616.4	52.4
Green Bay, WI MSA	-	315	137	23.5	618.1	15.7	31.2	373.4	1 611.1	2 936.4	4 537.5	79.3
Janesville-Beloit, WI MSA	-	200	70	17.5	484.7	12.9	24.8	323.7	1 602.6	2 679.9	4 289.2	43.2
La Crosse, WI MSA	-	138	53	10.3	226.0	6.7	13.1	125.2	494.2	535.1	1 026.8	29.7
Madison, WI MSA	-	517	171	22.1	525.7	13.1	25.7	253.8	1 209.1	1 420.4	2 604.8	65.9
Milwaukee-Racine, WI CMSA	-	3 407	1 322	189.5	5 160.9	119.0	236.4	2 834.9	11 609.4	10 546.2	22 176.0	668.7
Milwaukee, WI PMSA	-	3 023	1 178	164.0	4 442.6	104.8	209.6	2 537.2	9 666.1	9 410.1	19 103.9	541.9
Racine, WI PMSA	-	384	144	25.5	718.3	14.2	26.8	297.7	1 943.3	1 136.1	3 071.7	126.9
Minneapolis-St. Paul, MN-WI MSA	-	4 494	1 648	250.1	7 486.3	128.0	253.4	2 989.8	15 562.0	14 727.8	30 187.7	993.5
Portion in Minnesota	-	4 403	1 619	247.0	7 421.8	125.8	249.0	2 950.7	15 393.3	14 535.0	29 829.3	980.0
Portion in Wisconsin	E1	91	29	3.1	64.5	2.2	4.4	39.1	168.7	192.8	359.3	13.5
Sheboygan, WI MSA	-	236	125	18.7	443.8	12.4	24.9	262.8	945.0	1 146.1	2 077.3	84.5
Wausau, WI MSA	-	190	72	11.2	276.7	8.2	16.2	182.5	628.2	1 220.7	1 843.0	58.2
Wyoming	-	500	80	7.7	179.7	5.4	10.7	118.6	492.8	1 595.7	2 074.3	65.3
Casper, WY MSA	-	92	10	1.4	33.8	.9	1.8	21.6	68.7	424.0	495.8	6.4
Cheyenne, WY MSA	-	39	14	1.1	25.6	.7	1.6	16.8	34.2	257.2	306.1	5.4

¹Payroll and sales data for some single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other Government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown for those employment-size classes where estimated data based on administrative-record data account for 10 percent or more of figures shown: E1-10 to 19 percent; E2-20 to 29 percent; E3-30 to 39 percent; E4-40 to 49 percent; E5-50 to 59 percent; E6-60 to 69 percent; E7-70 to 79 percent; E8-80 to 89 percent; E9-90 percent or more.

²Includes auxiliaries (see appendixes).

³Includes establishments with payroll at any time during year.

⁴Aggregate of cost of materials and value of shipments includes extensive duplication, since products of some industries are used as materials by others (see appendixes).

Table 4. Employment Statistics for Operating Manufacturing Establishments and Auxiliaries by State: 1987 and Earlier Years

[Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and year		All establishments		Operating manufacturing establishments		Auxiliaries	
		Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)
United States	1987 ..	18 950.3	475 651.0	17 716.6	428 449.0	1 233.6	47 201.7
	1982 ..	19 094.1	379 625.5	17 818.1	341 406.2	1 276.0	38 220.4
	1977 ..	19 590.1	264 013.1	18 515.9	242 031.9	1 074.2	21 981.2
	1972 ..	19 028.7	174 205.5	18 034.4	160 433.2	994.3	13 772.3
Alabama	1987 ..	347.3	6 962.5	340.7	6 787.4	6.6	175.1
	1982 ..	329.6	5 234.4	324.6	5 130.9	5.0	103.5
	1977 ..	341.0	3 773.2	335.6	3 684.3	5.4	88.9
	1972 ..	322.6	2 396.8	318.7	2 346.7	3.9	50.1
Alaska	1987 ..	11.1	271.7	10.9	262.9	.2	8.8
	1982 ..	12.8	269.5	12.4	262.5	.4	7.0
	1977 ..	11.4	166.0	11.3	163.9	.1	2.1
	1972 ..	7.5	75.1	(D)	(D)	(D)	(D)
Arizona	1987 ..	184.1	4 669.0	177.4	4 442.1	6.7	226.9
	1982 ..	149.8	3 036.9	145.8	2 937.4	4.0	99.5
	1977 ..	110.9	1 462.9	105.9	1 374.5	5.0	88.4
	1972 ..	93.9	855.1	92.2	830.5	1.7	24.6
Arkansa	1987 ..	205.5	3 814.6	202.0	3 728.5	3.5	86.2
	1982 ..	189.8	2 823.7	186.1	2 735.1	3.7	88.6
	1977 ..	197.1	1 932.4	193.6	1 881.4	3.5	51.0
	1972 ..	180.9	1 151.7	178.5	1 126.6	2.4	25.1
California	1987 ..	2 104.3	57 147.8	2 011.1	53 099.6	93.2	4 048.2
	1982 ..	2 005.0	42 636.4	1 906.5	39 704.5	98.5	2 931.9
	1977 ..	1 751.5	24 671.5	1 682.9	23 248.3	68.6	1 423.2
	1972 ..	1 545.1	15 483.1	1 480.4	14 623.6	65.5	859.5
Colorado	1987 ..	183.8	4 958.4	176.8	4 727.8	7.0	230.7
	1982 ..	191.4	3 983.2	177.7	3 621.5	13.7	361.7
	1977 ..	152.5	2 124.8	143.7	1 958.7	8.8	166.1
	1972 ..	132.6	1 297.8	125.2	1 206.0	7.4	91.8
Connecticut	1987 ..	388.9	11 110.6	351.4	9 488.0	37.5	1 622.6
	1982 ..	424.4	9 059.6	381.1	7 658.5	43.3	1 401.1
	1977 ..	412.1	5 852.3	377.5	5 086.2	34.6	766.1
	1972 ..	399.3	3 860.0	380.4	3 580.5	18.9	279.5
Delaware	1987 ..	66.6	2 090.8	44.0	1 129.7	22.6	961.1
	1982 ..	67.9	1 742.9	43.8	873.7	24.1	869.2
	1977 ..	66.5	1 140.6	42.2	589.9	24.3	550.7
	1972 ..	69.1	754.5	49.3	449.6	19.8	304.9

See footnotes at end of table.

Table 4. Employment Statistics for Operating Manufacturing Establishments and Auxiliaries by State: 1987 and Earlier Years—Con.

[Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and year		All establishments		Operating manufacturing establishments		Auxiliaries	
		Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)
District of Columbia	1987	17.0	494.1	15.7	430.0	1.3	64.1
	1982	16.7	393.7	15.1	337.1	1.6	56.6
	1977	18.6	297.6	17.5	268.1	1.1	29.5
	1972	19.4	220.0	18.4	203.2	1.0	16.8
Florida	1987	499.3	10 954.0	484.9	10 487.0	14.4	467.0
	1982	454.4	7 773.2	440.0	7 395.7	14.4	377.5
	1977	358.0	4 133.1	350.0	4 003.3	8.0	129.8
	1972	342.9	2 750.3	336.7	2 672.8	6.2	77.5
Georgia	1987	569.9	11 933.1	539.4	10 956.8	30.5	976.3
	1982	503.2	7 912.2	480.2	7 327.3	23.0	584.9
	1977	484.7	5 124.5	470.3	4 856.5	14.4	268.0
	1972	467.5	3 336.0	453.6	3 168.2	13.9	167.8
Hawaii	1987	22.2	440.2	21.7	421.8	.5	18.3
	1982	23.6	360.4	22.9	341.7	.7	18.7
	1977	25.0	276.8	23.6	254.1	1.4	22.9
	1972	24.8	191.1	(D)	(D)	(D)	(D)
Idaho	1987	52.9	1 148.5	50.3	1 048.9	2.6	99.6
	1982	47.6	864.8	44.9	787.0	2.7	77.8
	1977	51.6	625.2	49.7	582.7	1.9	42.5
	1972	43.0	339.5	41.4	318.5	1.6	21.0
Illinois	1987	989.6	26 234.7	896.2	22 715.0	93.3	3 519.7
	1982	1 077.4	22 820.9	977.2	19 843.9	100.2	2 977.0
	1977	1 286.2	18 740.8	1 190.1	16 737.2	96.1	2 003.6
	1972	1 306.1	12 801.1	1 224.8	11 694.4	81.4	1 106.4
Indiana	1987	602.0	15 756.5	587.6	15 242.2	14.4	514.3
	1982	585.1	12 559.3	570.3	12 166.7	14.8	392.6
	1977	705.9	10 438.9	688.5	10 135.3	17.4	303.6
	1972	703.9	6 881.5	689.7	6 709.0	14.2	172.5
Iowa	1987	206.1	4 971.1	202.5	4 861.0	3.5	110.1
	1982	213.3	4 410.4	209.6	4 317.5	3.7	92.9
	1977	240.3	3 382.5	235.5	3 291.7	4.8	90.8
	1972	215.5	2 038.8	213.1	2 002.6	2.4	36.2
Kansas	1987	189.1	4 597.2	183.6	4 434.1	5.5	163.1
	1982	170.6	3 322.8	165.2	3 195.1	5.4	127.7
	1977	168.1	2 114.8	164.4	2 058.3	3.7	56.5
	1972	137.0	1 181.1	134.0	1 145.5	3.0	35.6
Kentucky	1987	251.6	5 865.2	241.5	5 516.8	10.2	348.4
	1982	246.6	4 638.8	232.2	4 260.7	14.4	378.1
	1977	277.5	3 452.2	266.2	3 252.6	11.3	199.6
	1972	258.7	2 160.0	250.3	2 060.3	8.4	99.7
Louisiana	1987	161.4	4 175.9	155.9	3 980.1	5.5	195.9
	1982	202.0	4 304.2	197.7	4 167.2	4.3	137.0
	1977	194.8	2 682.7	192.0	2 635.0	2.8	47.7
	1972	179.4	1 601.4	176.6	1 571.2	2.8	30.2
Maine	1987	101.6	2 192.1	100.0	2 150.4	1.6	41.7
	1982	110.2	1 774.9	109.3	1 752.8	.9	22.1
	1977	102.8	1 077.6	101.9	1 063.9	.9	13.7
	1972	100.0	699.4	(D)	(D)	(D)	(D)
Maryland	1987	230.4	5 955.7	216.6	5 504.5	13.8	451.2
	1982	234.5	4 861.4	218.9	4 440.9	15.6	420.5
	1977	243.2	3 419.5	228.5	3 163.9	14.7	255.6
	1972	255.6	2 386.3	245.5	2 260.3	10.1	126.0
Massachusetts	1987	591.3	15 211.3	551.6	13 854.2	39.7	1 357.1
	1982	643.4	12 353.1	596.1	11 066.2	47.3	1 286.9
	1977	613.4	7 818.8	579.7	7 168.5	33.7	650.3
	1972	618.9	5 486.0	585.4	5 031.3	33.5	454.7
Michigan	1987	980.1	30 627.8	854.4	25 221.9	125.7	5 405.9
	1982	883.9	22 210.4	768.5	18 328.3	115.4	3 882.1
	1977	1 115.9	20 054.0	1 011.1	17 434.0	104.8	2 620.0
	1972	1 076.2	12 745.1	981.5	11 125.8	94.7	1 619.3
Minnesota	1987	374.2	10 141.7	331.2	8 445.1	43.0	1 696.6
	1982	351.6	7 453.5	309.4	6 171.2	42.2	1 282.3
	1977	331.7	4 693.0	301.6	3 988.0	30.1	705.0
	1972	302.2	2 889.0	274.9	2 538.4	27.3	350.6
Mississippi	1987	218.9	3 827.3	215.8	3 775.5	3.1	51.7
	1982	201.7	2 880.8	199.7	2 847.9	2.0	32.9
	1977	219.4	2 061.5	216.8	2 032.6	2.6	28.9
	1972	200.4	1 302.4	198.0	1 281.8	2.1	18.7
Missouri	1987	418.8	10 390.0	385.3	9 091.0	33.5	1 299.0
	1982	406.0	8 016.4	374.4	7 127.8	31.6	888.6
	1977	433.3	5 709.1	404.4	5 219.4	28.9	489.7
	1972	434.3	3 897.3	407.9	3 563.4	26.4	333.9
Montana	1987	20.1	425.8	20.0	421.9	.1	3.9
	1982	20.2	379.1	(D)	(D)	(D)	(D)
	1977	23.5	311.8	23.4	310.1	.1	1.7
	1972	21.4	184.6	21.3	183.3	.1	1.3
Nebraska	1987	90.7	1 937.6	87.0	1 825.0	3.7	112.6
	1982	91.1	1 624.4	88.1	1 541.5	3.0	82.9
	1977	87.7	1 075.4	85.0	1 032.2	2.7	43.2
	1972	84.9	704.2	83.3	685.1	1.6	19.1
Nevada	1987	23.7	521.4	23.5	516.3	.2	5.1
	1982	20.4	356.4	(D)	(D)	(D)	(D)
	1977	15.0	191.6	14.5	184.9	.5	6.7
	1972	10.0	91.7	9.6	87.6	.4	4.1

See footnotes at end of table.

Table 4. Employment Statistics for Operating Manufacturing Establishments and Auxiliaries by State: 1987 and Earlier Years—Con.

[Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and year	All establishments		Operating manufacturing establishments		Auxiliaries	
	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)
New Hampshire ----- 1987..	107.9	2 508.7	104.4	2 387.4	3.5	121.3
1982..	107.4	1 792.0	105.1	1 721.4	2.3	70.6
1977..	95.3	1 029.0	94.2	1 008.1	1.1	20.9
1972..	89.7	663.2	88.9	654.3	.8	8.9
New Jersey ----- 1987..	690.8	18 549.9	591.1	14 820.8	99.7	3 729.1
1982..	754.0	15 845.0	651.2	12 623.3	102.8	3 221.7
1977..	778.3	10 924.2	691.4	9 175.6	86.9	1 748.6
1972..	836.1	8 107.2	756.1	6 961.4	80.0	1 145.8
New Mexico ----- 1987..	34.7	713.3	34.5	709.4	.1	3.9
1982..	33.0	521.2	32.4	507.9	.6	13.3
1977..	29.0	296.9	28.7	292.0	.3	4.9
1972..	23.6	157.2	23.2	152.5	.4	4.7
New York ----- 1987..	1 278.7	33 915.8	1 149.1	28 724.5	129.6	5 191.3
1982..	1 418.8	29 156.0	1 285.6	24 907.4	133.2	4 248.6
1977..	1 509.9	20 876.1	1 383.8	18 088.8	126.1	2 787.3
1972..	1 679.3	16 222.0	1 512.2	13 754.2	167.1	2 467.8
North Carolina ----- 1987..	842.4	16 293.4	808.1	15 242.9	34.3	1 050.5
1982..	799.1	11 723.5	763.9	10 806.8	35.2	916.7
1977..	765.3	7 518.5	739.4	7 042.5	25.9	476.0
1972..	743.7	4 929.1	722.5	4 677.7	21.2	251.4
North Dakota ----- 1987..	15.4	310.4	15.3	307.9	.1	2.5
1982..	14.8	245.6	(D)	(D)	(D)	(D)
1977..	13.8	162.3	(D)	(D)	(D)	(D)
1972..	10.2	78.6	(D)	(D)	(D)	(D)
Ohio ----- 1987..	1 100.2	30 765.2	1 004.4	27 107.8	95.8	3 657.5
1982..	1 108.4	24 812.4	1 003.1	21 732.9	105.3	3 079.5
1977..	1 331.2	20 356.0	1 249.5	18 753.7	81.7	1 602.3
1972..	1 346.3	13 810.0	1 263.8	12 720.1	82.5	1 089.9
Oklahoma ----- 1987..	151.2	3 629.3	145.9	3 406.7	5.2	222.7
1982..	194.7	4 023.3	172.4	3 281.1	25.0	742.2
1977..	164.4	2 050.9	150.2	1 786.3	14.2	264.6
1972..	142.7	1 187.9	128.9	1 020.7	13.8	167.2
Oregon ----- 1987..	202.9	4 767.2	196.3	4 550.5	6.5	216.7
1982..	185.1	3 783.2	178.7	3 599.4	6.4	183.8
1977..	202.4	2 760.0	197.0	2 657.4	5.4	102.6
1972..	178.6	1 627.3	173.7	1 565.2	4.9	62.1
Pennsylvania ----- 1987..	1 037.5	25 301.6	956.6	22 196.3	80.9	3 105.3
1982..	1 180.6	23 322.7	1 082.9	20 444.9	97.7	2 877.8
1977..	1 329.2	18 042.7	1 241.9	16 308.8	87.3	1 733.9
1972..	1 417.5	12 794.1	1 330.4	11 627.2	87.1	1 166.9
Rhode Island ----- 1987..	112.0	2 292.0	107.9	2 146.3	4.2	145.8
1982..	114.6	1 777.3	112.2	1 717.2	2.4	60.1
1977..	125.0	1 326.5	123.6	1 296.8	1.4	29.7
1972..	118.1	888.2	116.5	865.6	1.6	22.6
South Carolina ----- 1987..	365.8	7 323.9	354.9	6 984.3	10.9	339.6
1982..	367.4	5 538.6	355.2	5 278.3	12.2	260.3
1977..	374.2	3 804.9	365.2	3 663.9	9.0	141.0
1972..	345.1	2 344.5	337.9	2 265.4	7.2	79.1
South Dakota ----- 1987..	27.5	497.9	27.2	489.4	.3	8.5
1982..	24.5	397.9	24.4	394.3	.1	3.6
1977..	22.5	251.4	22.4	249.0	.1	2.4
1972..	17.4	134.5	(D)	(D)	(D)	(D)
Tennessee ----- 1987..	484.9	9 869.2	472.3	9 480.0	12.6	389.2
1982..	461.6	7 377.7	450.3	7 114.8	11.3	262.9
1977..	489.8	5 218.7	481.0	5 098.9	8.8	119.8
1972..	467.4	3 351.7	459.8	3 276.9	7.6	74.8
Texas ----- 1987..	914.0	23 240.9	863.1	21 251.7	50.9	1 989.2
1982..	1 058.4	21 436.2	1 002.2	19 699.4	56.2	1 736.8
1977..	886.4	11 653.1	841.5	10 735.9	44.9	917.2
1972..	736.1	6 344.6	708.2	5 949.8	27.9	394.8
Utah ----- 1987..	88.8	2 073.1	85.5	1 958.9	3.2	114.2
1982..	83.2	1 538.8	82.1	1 510.7	1.1	28.1
1977..	70.2	867.2	67.9	834.8	2.1	32.4
1972..	56.6	486.2	53.7	452.9	2.9	33.3
Vermont ----- 1987..	48.5	1 140.0	48.5	1 138.3	.1	1.7
1982..	46.8	862.7	46.8	860.8	(Z)	1.9
1977..	41.5	498.0	41.3	494.8	.2	3.2
1972..	36.9	311.4	(D)	(D)	(D)	(D)
Virginia ----- 1987..	429.2	9 740.1	410.3	9 009.0	18.9	731.1
1982..	391.1	6 649.0	379.7	6 342.6	11.4	306.4
1977..	395.2	4 442.4	383.5	4 244.9	11.7	197.5
1972..	375.4	2 826.0	365.8	2 720.3	9.6	105.7
Washington ----- 1987..	309.7	8 841.6	292.4	8 161.4	17.3	680.2
1982..	291.8	6 688.6	277.2	6 255.2	14.6	433.4
1977..	265.0	4 054.3	256.2	3 870.9	8.8	183.4
1972..	226.0	2 308.4	219.3	2 223.7	6.7	84.7
West Virginia ----- 1987..	83.8	2 107.6	79.0	1 926.7	4.8	180.9
1982..	95.8	2 007.0	91.1	1 874.1	4.7	132.9
1977..	117.0	1 620.5	114.3	1 568.4	2.7	52.1
1972..	120.8	1 097.6	116.8	1 042.6	4.0	55.0
Wisconsin ----- 1987..	514.0	12 763.4	483.1	11 706.2	30.9	1 057.2
1982..	496.8	10 201.4	468.2	9 361.0	28.6	840.4
1977..	535.0	7 317.8	511.9	6 897.9	23.1	419.9
1972..	500.5	4 722.3	484.3	4 517.7	16.2	204.6

See footnotes at end of table.

Table 4. Employment Statistics for Operating Manufacturing Establishments and Auxiliaries by State: 1987 and Earlier Years—Con.

[Data in this table may differ slightly from the industry reports previously published. These differences are due to corrections which were made for minor errors identified after the industry reports were issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and year	All establishments		Operating manufacturing establishments		Auxiliaries	
	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)
Wyoming ----- 1987--	7.7	179.7	7.6	177.3	.1	2.4
1982--	9.9	183.3	9.4	173.1	.5	10.2
1977--	8.5	110.9	8.1	104.4	.4	6.5
1972--	7.0	56.9	6.7	53.9	.3	3.0

Note: For qualifications of data, see footnotes, chapter 4, table 1.

Table 5. Distribution of Establishments by Employment-Size Class and Major Group by State: 1987

[Major group descriptions are: 20—food and kindred products; 21—tobacco manufactures; 22—textile mill products; 23—apparel and other textile products; 24—lumber and wood products; 25—furniture and fixtures; 26—paper and allied products; 27—printing and publishing; 28—chemicals and allied products; 29—petroleum and coal products; 30—rubber and miscellaneous plastics products; 31—leather and leather products; 32—stone, clay, and glass products; 33—primary metal industries; 34—fabricated metal products; 35—industrial machinery and equipment; 36—electronic and other electric equipment; 37—transportation equipment; 38—instruments and related products; 39—miscellaneous manufacturing industries. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendices. Data in this table may differ slightly from the area reports previously published. These differences are due to corrections which were made for minor errors identified after the area reports were issued.]

Geographic area and employment-size class	All establishments ^{1,2}	Number of establishments by major group																38	39	Auxiliaries		
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35				36	37
Alabama-----	5 843	264	2	220	397	1 543	219	94	619	167	35	146	12	294	152	495	562	149	172	75	126	100
1 to 4 employees-----	1 877	45	-	37	73	701	70	14	289	50	4	27	7	75	21	106	180	40	44	30	44	20
5 to 9 employees-----	1 010	36	-	19	28	341	38	6	134	22	3	14	2	51	14	88	128	18	20	13	23	12
10 to 19 employees-----	889	40	-	25	27	223	24	11	77	31	9	33	2	73	16	100	100	26	26	9	24	13
20 to 49 employees-----	824	32	-	33	54	150	44	19	68	32	10	32	1	47	31	84	89	11	37	5	20	25
50 to 99 employees-----	438	28	-	25	49	59	16	15	24	11	3	16	-	26	21	65	25	21	13	5	6	10
100 to 249 employees-----	464	50	1	35	87	61	17	13	20	10	6	12	-	19	24	34	25	10	13	7	5	15
250 to 499 employees-----	219	21	1	26	56	8	9	7	6	4	-	4	-	2	20	14	8	13	8	6	3	4
500 to 999 employees-----	85	10	-	19	17	-	1	3	1	4	-	4	-	2	5	3	6	7	7	-	1	1
1,000 to 2,499 employees-----	32	2	-	1	6	-	-	6	-	3	-	2	-	-	-	1	-	3	2	-	-	-
2,500 employees or more-----	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alaska-----	427	103	-	1	9	68	3	3	88	6	8	4	-	38	-	23	20	3	16	2	20	12
1 to 4 employees-----	176	25	-	1	6	26	2	1	41	3	1	1	-	18	-	7	10	2	9	2	16	5
5 to 9 employees-----	73	10	-	1	1	11	1	-	20	-	1	-	-	8	-	5	6	1	4	-	4	2
10 to 19 employees-----	72	15	-	2	2	7	1	-	17	1	-	3	-	5	-	7	3	-	2	-	4	2
20 to 49 employees-----	46	18	-	-	-	6	-	-	6	-	2	-	-	6	-	3	1	-	1	-	-	2
50 to 99 employees-----	30	19	-	-	-	4	-	-	1	2	-	-	-	1	-	1	-	-	-	-	-	1
100 to 249 employees-----	24	15	-	-	-	1	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
250 to 499 employees-----	6	1	-	-	-	1	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arizona-----	4 151	176	-	19	156	292	173	33	883	95	18	163	26	271	57	390	578	249	148	131	215	78
1 to 4 employees-----	1 580	58	-	12	60	101	67	4	392	33	6	46	11	91	14	135	235	69	61	48	117	20
5 to 9 employees-----	802	19	-	3	28	44	34	3	223	19	7	30	6	48	10	69	120	41	24	18	47	9
10 to 19 employees-----	638	27	-	11	19	60	36	10	132	12	3	28	2	52	1	76	82	32	15	24	22	13
20 to 49 employees-----	625	32	-	21	21	45	21	8	91	25	1	32	6	43	12	69	96	45	20	17	17	14
50 to 99 employees-----	255	18	-	1	17	27	8	4	28	2	1	14	1	21	4	29	25	22	4	10	8	11
100 to 249 employees-----	152	15	-	1	7	12	6	3	13	1	-	11	-	11	9	9	13	18	11	4	2	6
250 to 499 employees-----	26	6	-	-	3	3	1	1	2	2	-	2	-	3	5	1	1	6	7	2	1	2
500 to 999 employees-----	29	1	-	-	1	-	-	-	-	-	-	-	-	2	1	2	4	5	1	5	1	1
1,000 to 2,499 employees-----	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,500 employees or more-----	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arkansas-----	3 390	259	-	16	109	842	129	77	369	80	22	117	34	203	54	248	369	111	129	34	101	67
1 to 4 employees-----	1 131	50	-	8	26	388	37	10	152	25	4	27	6	61	4	66	143	21	38	13	37	15
5 to 9 employees-----	539	23	-	1	8	148	21	4	85	17	4	11	4	43	5	35	70	14	14	3	16	13
10 to 19 employees-----	510	33	-	1	11	134	18	6	61	6	1	16	-	47	7	33	71	9	19	6	21	10
20 to 49 employees-----	462	41	-	15	15	78	15	14	55	10	7	25	4	29	6	53	41	13	24	6	13	13
50 to 99 employees-----	257	38	-	2	17	44	9	13	18	10	3	14	4	14	6	14	15	11	11	1	4	9
100 to 249 employees-----	285	28	-	2	17	41	21	18	11	7	2	15	6	8	21	24	13	23	14	2	7	3
250 to 499 employees-----	131	22	-	1	13	8	5	5	4	2	1	7	1	1	4	18	12	10	4	1	3	3
500 to 999 employees-----	49	15	-	1	2	1	1	1	2	2	-	1	-	-	1	4	2	6	4	1	1	1
1,000 to 2,499 employees-----	25	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,500 employees or more-----	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
California-----	49 930	2 521	1	420	4 972	2 671	1 804	624	7 932	1 423	240	2 012	232	1 651	705	4 744	7 388	3 493	1 706	2 025	2 305	1 061
1 to 4 employees-----	16 888	608	1	134	1 599	989	558	102	3 865	386	66	483	87	504	144	1 234	2 917	886	492	555	1 046	232
5 to 9 employees-----	8 835	304	-	54	791	496	287	68	1 629	265	64	317	39	274	88	849	1 575	504	274	347	456	152
10 to 19 employees-----	8 305	426	-	77	939	477	286	89	1 087	273	25	354	40	318	135	992	1 304	528	299	308	371	175
20 to 49 employees-----	8 509	497	-	78	1 024	405	343	141	801	289	41	423	33	331	158	1 011	946	659	305	362	262	200
50 to 99 employees-----	3 658	279	-	32	388	156	169	93	300	111	14	251	11	124	84	378	332	391	133	190	114	108
100 to 249 employees-----	2 499	248	-	36	186	116	121	114	181	63	16	143	15	66	77	212	205	315	92	147	43	103
250 to 499 employees-----	751	101	-	8	36	26	31	14	40	21	4	32	7	28	12	50	55	122	51	54	9	50
500 to 999 employees-----	294	46	-	1	8	4	7	3	17	10	7	7	-	5	2	12	26	56	22	28	4	26
1,000 to 2,499 employees-----	137	10	-	-	1	-	2	-	10	5	3	1	-	-	2	6	23	24	11	24	-	14
2,500 employees or more-----	54	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	5	8	27	10	-	1
Colorado-----	4 718	309	-	22	149	311	181	53	1 170	114	25	170	32	250	54	399	584	213	92	221	242	127
1 to 4 employees-----	1 958	94	-	14	73	154	83	7	611	44	9	45	16	79	15	131	244	71	36	75	114	43
5 to 9 employees-----	951	47	-	3	25	60	36	5	239	24	7	34	3	50	14	95	139	33	18	41	59	19
10 to 19 employees-----	705	46	-	4	19	52	26	11	150	19	2	35	2	46	10	67	89	28	14	34	33	18
20 to 49 employees-----	606	55	-	1	16	28	23	13	110	16	4	16	3	44	6	66	62	36	10	31	25	17
50 to 99 employees-----	223	21	-	-	8	8	10	9	32	5	2	16	-	20	3	18	21	18	7	10	6	9
100 to 249 employees-----	177	31	-	-	8	8	3	7	18	5	1	4	-	7	5	15	13	13	4	15	2	16
250 to 499 employees-----	46	10	-	-	-	-	-	1	2	1	-	1	-	3	-	2	7	10	-	3	3	3
500 to 999 employees-----	21	3	-	-	-	-	-	-	5	-	-	-	-	-	-	3	1	1	-	4	-	1
1,000 to 2,499 employees-----	25	1	-	-	-	-	-	-	3	-	-	-	-	1	-	1	5	3	-	6	-	1
2,500 employees or more-----	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-

See footnotes at end of table.

Table 5. Distribution of Establishments by Employment-Size Class and Major Group by State: 1987—Con.

[Major group descriptions are: 20—food and kindred products; 21—tobacco manufactures; 22—textile mill products; 23—apparel and other textile products; 24—lumber and wood products; 25—furniture and fixtures; 26—paper and allied products; 27—printing and publishing; 28—chemicals and allied products; 29—petroleum and coal products; 30—rubber and miscellaneous plastics products; 31—leather and leather products; 32—stone, clay, and glass products; 33—primary metal industries; 34—fabricated metal products; 35—industrial machinery and equipment; 36—electronic and other electric equipment; 37—transportation equipment; 38—instruments and related products; 39—miscellaneous manufacturing industries. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes. Data in this table may differ slightly from the area reports previously published. These differences are due to corrections which were made for minor errors identified after the area reports were issued.]

Geographic area and employment-size class	All establishments ^{1,2}	Number of establishments by major group																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	Auxiliaries
Connecticut																						
1 to 4 employees	6 747	190	2	75	174	242	140	97	1 086	166	29	265	14	179	189	996	1 397	449	213	296	291	257
5 to 9 employees	1 997	46	—	14	47	107	43	11	442	35	14	54	2	50	33	224	512	104	53	62	121	23
10 to 19 employees	1 184	31	—	8	22	56	27	10	204	30	5	46	3	29	32	169	317	58	25	35	52	25
20 to 49 employees	1 106	37	1	14	33	36	28	12	165	28	3	42	1	34	20	197	240	58	26	50	49	32
50 to 99 employees	1 182	38	—	14	39	31	25	32	148	40	5	51	—	43	37	222	189	81	41	54	33	54
100 to 249 employees	579	12	1	12	18	8	10	12	65	12	—	37	—	16	26	100	68	68	25	38	17	34
250 to 499 employees	420	15	—	9	12	4	4	20	41	12	2	30	3	5	28	53	39	45	18	22	12	46
500 to 999 employees	167	7	—	3	3	—	3	1	13	2	—	4	—	1	10	20	21	22	9	18	4	26
1,000 to 2,499 employees	81	4	—	1	—	—	—	1	6	4	—	1	—	—	3	9	5	13	5	12	2	14
2,500 employees or more	20	—	—	—	—	—	—	—	2	2	—	—	—	—	—	2	2	—	5	1	1	2
Delaware																						
1 to 4 employees	673	56	—	4	29	39	10	15	129	47	15	45	2	39	9	50	68	21	9	19	20	47
5 to 9 employees	191	12	—	2	11	14	1	2	44	11	7	6	1	9	2	7	24	9	4	7	9	9
10 to 19 employees	112	6	—	—	3	11	4	—	28	7	5	7	—	5	—	8	11	2	1	3	2	2
20 to 49 employees	108	6	—	—	1	8	1	—	27	2	—	6	1	7	—	14	17	3	—	3	8	4
50 to 99 employees	113	12	—	—	7	3	1	3	20	4	1	10	—	14	3	11	10	4	1	2	1	6
100 to 249 employees	56	5	—	1	2	1	1	4	7	6	1	9	—	1	1	4	2	1	1	9	—	—
250 to 499 employees	50	4	—	—	3	1	1	—	1	12	—	6	—	3	3	5	4	1	—	—	—	2
500 to 999 employees	18	2	—	1	2	—	1	2	1	3	—	1	—	—	—	1	—	—	—	2	—	—
1,000 to 2,499 employees	12	3	—	—	—	1	—	—	1	1	—	—	—	—	—	—	—	—	—	2	—	3
2,500 employees or more	5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	—	—	3
District of Columbia																						
1 to 4 employees	486	16	—	—	11	4	7	1	302	6	—	2	—	8	1	13	5	8	3	4	16	79
5 to 9 employees	171	5	—	—	3	2	5	—	108	2	—	1	—	2	1	4	2	2	1	1	10	22
10 to 19 employees	106	5	—	—	3	1	1	—	67	1	—	1	—	3	—	2	1	1	2	2	1	1
20 to 49 employees	85	2	—	—	4	—	1	—	52	2	—	—	—	—	—	3	1	2	1	—	16	
50 to 99 employees	74	1	—	—	1	—	1	1	45	—	—	—	—	1	—	2	1	2	1	4	12	
100 to 249 employees	31	—	—	—	—	1	—	—	17	—	—	—	—	2	—	2	—	1	—	—	7	
250 to 499 employees	11	1	—	—	—	—	—	—	6	1	—	—	—	—	—	—	1	—	—	1	—	
500 to 999 employees	3	1	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	
1,000 to 2,499 employees	3	—	—	—	—	—	—	—	3	—	—	—	—	—	—	—	—	—	—	—	—	
2,500 employees or more	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	
Florida																						
1 to 4 employees	15 603	688	35	136	1 223	1 368	867	181	3 118	493	52	590	72	908	123	1 357	1 390	621	828	429	852	272
5 to 9 employees	6 221	211	15	45	470	543	373	38	1 593	165	17	176	28	257	32	455	604	187	320	181	449	62
10 to 19 employees	2 870	93	6	28	195	307	172	19	644	82	11	101	11	141	26	250	255	92	151	67	171	48
20 to 49 employees	2 466	100	6	22	181	209	142	32	412	105	5	107	8	197	15	247	215	87	138	54	127	57
50 to 99 employees	2 926	74	2	22	223	184	113	31	294	77	10	108	9	225	22	251	199	94	87	62	73	40
100 to 249 employees	589	59	5	8	49	39	25	30	103	30	7	63	11	54	10	76	72	69	58	20	22	26
250 to 499 employees	190	34	1	1	12	7	5	6	48	18	2	27	3	26	13	64	31	52	34	22	10	24
500 to 999 employees	78	15	—	1	4	1	—	—	11	11	—	6	1	4	5	11	9	19	26	9	—	12
1,000 to 2,499 employees	28	2	—	—	—	—	—	—	5	2	—	—	—	—	—	3	3	9	7	8	—	3
2,500 employees or more	9	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	1	8	6	4	—	—
Georgia																						
1 to 4 employees	9 187	453	4	570	644	1 522	321	207	1 437	408	59	311	32	535	78	568	850	232	214	136	239	367
5 to 9 employees	2 697	78	1	86	106	633	99	12	633	88	24	46	12	120	11	139	293	63	58	44	95	56
10 to 19 employees	1 556	52	—	42	60	364	54	23	300	71	12	32	1	103	8	91	172	26	24	21	44	44
20 to 49 employees	1 407	57	—	60	44	255	49	22	218	72	6	51	6	124	13	101	149	24	38	13	44	61
50 to 99 employees	1 434	83	—	96	98	131	63	41	163	81	6	84	4	114	16	118	125	37	31	35	29	79
100 to 249 employees	793	58	—	69	104	60	23	37	69	46	6	52	6	36	11	59	52	18	24	8	11	44
250 to 499 employees	799	61	1	104	149	68	24	42	31	35	5	40	2	26	7	46	43	37	14	5	11	48
500 to 999 employees	307	35	1	58	88	8	8	16	17	12	—	5	1	7	5	12	11	13	8	6	3	13
1,000 to 2,499 employees	135	23	—	35	14	3	1	10	14	3	—	—	—	5	—	2	4	8	9	3	1	1
2,500 employees or more	51	6	—	19	1	—	—	4	2	—	—	—	—	—	—	—	—	6	3	1	—	5
Hawaii																						
1 to 4 employees	1 022	229	—	5	181	41	35	9	188	23	5	22	7	54	6	37	32	11	15	16	83	23
5 to 9 employees	370	64	—	1	55	18	16	2	77	10	1	6	1	19	4	13	13	9	6	10	37	8
10 to 19 employees	232	45	—	—	39	8	7	2	47	6	1	7	2	11	1	12	11	1	3	3	23	3
20 to 49 employees	195	48	—	2	40	10	5	2	30	4	—	2	3	12	—	6	7	1	1	2	15	2
50 to 99 employees	132	35	—	2	29	3	6	2	20	2	1	2	1	7	—	4	1	—	4	—	7	—
100 to 249 employees	52	15	—	—	13	2	1	—	7	—	—	—	—	5	—	—	—	—	—	—	—	5

See footnotes at end of table.

Table 5. Distribution of Establishments by Employment-Size Class and Major Group by State: 1987—Con.

[Major group descriptions are: 20—food and kindred products; 21—tobacco manufactures; 22—textile mill products; 23—apparel and other textile products; 24—lumber and wood products; 25—furniture and fixtures; 26—paper and allied products; 27—printing and publishing; 28—chemicals and allied products; 29—petroleum and coal products; 30—rubber and miscellaneous plastics products; 31—leather and leather products; 32—stone, clay, and glass products; 33—primary metal industries; 34—fabricated metal products; 35—industrial machinery and equipment; 36—electronic and other electric equipment; 37—transportation equipment; 38—instruments and related products; 39—miscellaneous manufacturing industries. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendices. Data in this table may differ slightly from the area reports previously published. These differences are due to corrections which were made for minor errors identified after the area reports were issued.]

Geographic area and employment-size class	All establishments ^{1,2}	Number of establishments by major group																	38	39	Auxiliaries	
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36				37
Hawaii—Con.																						
100 to 249 employees.....	33	15	—	—	—	—	—	1	6	1	2	—	—	—	—	1	—	—	—	1	—	
250 to 499 employees.....	4	4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
500 to 999 employees.....	3	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
1,000 to 2,499 employees.....	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Idaho	1 491	138	—	5	25	553	39	9	214	32	5	26	10	71	12	77	116	29	30	22	49	
1 to 4 employees.....	649	35	—	1	10	257	22	1	108	14	3	10	4	29	5	24	53	10	12	9	32	
5 to 9 employees.....	268	14	—	7	7	94	7	3	49	8	1	8	—	11	2	15	26	2	4	5	7	
10 to 19 employees.....	203	19	—	2	3	74	8	—	23	2	—	—	4	14	2	17	13	2	6	3	7	
20 to 49 employees.....	187	23	—	4	66	34	1	—	18	3	1	3	1	15	3	16	17	6	1	2	1	
50 to 99 employees.....	76	15	—	—	—	—	—	—	4	—	—	2	—	2	—	3	4	2	3	2	—	
100 to 249 employees.....	68	16	—	—	—	24	1	2	9	2	—	—	—	—	—	1	1	3	3	1	4	
250 to 499 employees.....	20	9	—	—	—	4	—	—	2	—	—	—	—	—	—	—	—	1	—	—	2	
500 to 999 employees.....	14	5	—	—	—	—	—	—	1	2	—	1	—	—	—	—	—	2	—	—	—	
1,000 to 2,499 employees.....	6	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	—	—	—	—	
Illinois	18 404	991	1	78	450	566	466	401	3 496	724	108	846	69	639	455	2 484	3 364	950	310	524	752	
1 to 4 employees.....	4 933	197	—	13	156	211	125	31	1 351	150	21	158	19	170	61	462	994	200	71	136	287	
5 to 9 employees.....	3 049	122	—	21	105	111	82	28	695	103	27	88	12	120	60	412	686	126	39	75	107	
10 to 19 employees.....	3 234	165	—	12	76	103	79	54	588	117	17	129	11	119	62	537	664	135	51	91	132	
20 to 49 employees.....	3 391	184	—	17	86	107	85	110	432	170	24	214	12	133	110	563	560	187	55	88	141	
50 to 99 employees.....	1 726	128	—	8	47	22	43	69	213	93	7	123	10	60	58	261	223	105	23	61	56	
100 to 249 employees.....	1 336	122	—	4	21	13	37	88	148	55	6	94	4	22	70	175	149	111	35	47	96	
250 to 499 employees.....	452	46	1	1	6	3	11	14	44	24	2	26	1	11	16	54	54	47	18	12	15	
500 to 999 employees.....	193	21	—	2	—	2	3	6	14	11	3	8	—	4	10	16	22	26	12	10	3	
1,000 to 2,499 employees.....	66	4	—	—	—	—	—	—	9	—	—	6	—	—	7	3	6	9	3	3	—	
2,500 employees or more.....	24	2	—	—	—	—	—	—	2	—	—	—	—	—	1	—	6	4	3	1	—	
Indiana	8 641	390	1	30	180	691	314	172	1 221	252	54	515	29	427	298	1 056	1 513	354	492	180	268	
1 to 4 employees.....	2 200	74	—	11	71	209	63	14	492	57	14	69	7	113	30	215	444	61	77	46	105	
5 to 9 employees.....	1 403	46	—	4	21	143	46	11	247	42	13	46	3	88	35	147	300	31	67	42	46	
10 to 19 employees.....	1 426	54	—	7	23	116	54	25	201	44	12	67	2	95	44	170	290	43	69	27	43	
20 to 49 employees.....	1 514	80	—	2	22	105	48	35	144	55	4	118	1	64	62	244	255	67	105	26	34	
50 to 99 employees.....	928	45	—	1	16	72	45	39	72	21	4	90	10	33	40	148	118	45	59	15	23	
100 to 249 employees.....	725	53	—	2	17	37	35	39	45	17	5	83	2	21	53	93	70	53	54	11	10	
250 to 499 employees.....	272	25	—	3	9	6	17	6	15	5	—	32	4	8	11	31	25	23	31	7	5	
500 to 999 employees.....	107	10	—	—	1	2	4	3	3	5	—	8	—	4	13	5	5	21	17	2	3	
1,000 to 2,499 employees.....	44	2	—	—	—	—	2	—	3	4	—	2	—	—	6	1	4	6	7	3	—	
2,500 employees or more.....	22	1	—	—	—	—	—	—	—	2	—	—	—	—	4	2	2	4	6	1	—	
Iowa	3 569	445	—	10	93	174	66	50	787	126	11	135	16	274	67	293	561	91	107	51	131	
1 to 4 employees.....	1 105	72	—	1	32	70	18	6	319	30	3	27	3	115	8	78	177	24	25	20	58	
5 to 9 employees.....	642	72	—	1	10	39	13	3	171	32	1	14	1	62	10	47	95	11	12	12	24	
10 to 19 employees.....	563	69	—	4	17	31	5	5	119	22	4	23	3	46	13	54	82	6	19	12	24	
20 to 49 employees.....	547	85	—	1	15	18	15	8	104	19	3	23	5	33	14	50	93	12	15	7	20	
50 to 99 employees.....	292	61	—	—	8	6	3	8	43	7	—	23	2	4	7	26	46	9	15	4	15	
100 to 249 employees.....	261	47	—	1	9	8	7	13	22	12	—	18	2	12	9	25	37	14	14	1	3	
250 to 499 employees.....	95	21	—	—	1	1	4	4	6	3	—	—	—	2	4	8	16	9	4	2	3	
500 to 999 employees.....	30	10	—	—	—	—	1	2	—	—	—	—	—	—	—	3	8	2	2	1	—	
1,000 to 2,499 employees.....	27	8	—	—	—	—	—	—	3	—	—	4	—	—	1	2	5	2	2	—	—	
2,500 employees or more.....	7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	2	1	—	—	
Kansas	3 275	273	—	14	78	131	75	54	713	115	35	137	6	211	55	266	560	125	159	62	111	
1 to 4 employees.....	1 087	64	—	8	31	47	24	8	297	25	7	28	2	71	16	72	200	39	43	22	60	
5 to 9 employees.....	572	35	—	2	13	24	17	3	144	19	3	19	1	53	9	41	96	23	18	8	18	
10 to 19 employees.....	477	45	—	1	3	22	8	7	111	12	3	20	—	30	6	60	82	18	22	5	11	
20 to 49 employees.....	546	51	—	2	12	23	15	11	88	25	7	28	1	35	14	50	92	17	33	7	18	
50 to 99 employees.....	278	32	—	—	9	7	9	15	36	15	4	21	1	12	4	27	45	11	14	12	1	
100 to 249 employees.....	197	27	—	1	6	6	2	10	26	11	3	12	1	7	4	14	29	9	15	4	2	
250 to 499 employees.....	73	10	—	—	3	2	—	3	6	5	3	6	—	1	1	1	11	5	7	2	1	
500 to 999 employees.....	29	2	—	—	1	—	—	—	5	3	—	2	—	2	—	—	3	3	3	1	—	
1,000 to 2,499 employees.....	12	7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	—	—	—	—	
2,500 employees or more.....	4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4	—	—	

See footnotes at end of table.

Table 5. Distribution of Establishments by Employment-Size Class and Major Group by State: 1987—Con.

[Major group descriptions are: 20—food and kindred products; 21—tobacco manufactures; 22—textile mill products; 23—apparel and other textile products; 24—lumber and wood products; 25—furniture and fixtures; 26—paper and allied products; 27—printing and publishing; 28—chemicals and allied products; 29—petroleum and coal products; 30—rubber and miscellaneous plastics products; 31—leather and leather products; 32—stone, clay, and glass products; 33—primary metal industries; 34—fabricated metal products; 35—industrial machinery and equipment; 36—electronic and other electric equipment; 37—transportation equipment; 38—instruments and related products; 39—miscellaneous manufacturing industries. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendices. Data in this table may differ slightly from the area reports previously published. These differences are due to corrections which were made for minor errors identified after the area reports were issued.]

Geographic area and employment-size class	All establishments ^{1, 2}	Number of establishments by major group																		39	Auxiliaries
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	
Kentucky	3 693	244	12	33	163	483	107	65	627	146	39	135	11	263	68	350	486	119	87	34	119
1 to 4 employees.....	1 051	59	1	5	24	186	39	4	251	31	18	18	2	65	5	66	154	20	20	7	55
5 to 9 employees.....	385	30	1	5	9	84	13	4	130	24	10	9	—	52	8	47	101	17	10	5	12
10 to 19 employees.....	344	29	1	5	8	83	14	5	86	21	4	16	—	58	4	59	82	10	12	6	9
20 to 49 employees.....	537	44	2	6	17	90	15	16	81	24	2	40	1	52	10	90	69	18	15	4	15
50 to 99 employees.....	304	24	2	3	28	24	7	10	36	19	3	3	3	15	8	38	20	16	7	2	8
100 to 249 employees.....	346	39	3	7	47	15	11	20	20	14	1	19	2	15	16	37	32	10	9	8	7
250 to 499 employees.....	141	15	—	—	1	1	3	4	3	7	—	3	3	6	9	9	19	15	7	1	2
500 to 999 employees.....	57	4	1	—	7	—	—	2	5	5	—	—	—	—	6	3	5	7	4	1	4
1,000 to 2,499 employees.....	21	—	—	—	2	—	—	—	3	1	1	—	—	—	—	—	3	4	2	—	—
2,500 employees or more.....	7	—	1	1	—	—	—	—	—	—	—	—	—	—	1	—	1	2	1	—	—
Louisiana	3 816	378	1	11	103	678	49	50	628	242	60	80	5	217	30	316	453	66	188	42	120
1 to 4 employees.....	1 414	89	1	5	35	319	20	1	296	54	12	26	1	58	8	108	192	25	63	18	56
5 to 9 employees.....	690	53	—	1	7	148	11	6	141	29	7	10	—	44	2	56	89	11	24	6	27
10 to 19 employees.....	601	44	—	—	10	108	8	3	97	38	4	17	1	49	6	59	85	16	24	8	13
20 to 49 employees.....	537	86	—	1	15	67	6	8	58	36	16	10	2	42	4	54	57	10	22	7	23
50 to 99 employees.....	248	52	—	2	13	11	2	8	20	27	4	8	—	15	2	24	19	5	21	1	9
100 to 249 employees.....	74	38	—	1	14	19	2	11	12	28	7	9	1	7	6	9	9	3	17	2	8
250 to 499 employees.....	204	14	—	—	6	6	—	6	2	17	4	—	—	1	1	2	1	4	7	—	2
500 to 999 employees.....	33	2	—	—	3	—	—	6	2	9	4	—	—	—	—	—	1	1	—	—	1
1,000 to 2,499 employees.....	11	—	—	1	—	—	—	—	—	4	2	—	—	—	—	—	—	—	—	—	—
2,500 employees or more.....	4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Maine	2 172	141	—	62	62	732	42	37	299	36	11	44	61	75	13	115	147	54	112	18	84
1 to 4 employees.....	854	44	—	10	25	334	17	2	152	12	3	6	12	23	2	33	56	13	47	8	52
5 to 9 employees.....	403	17	—	8	13	156	8	2	62	8	1	5	1	14	5	24	33	6	24	2	10
10 to 19 employees.....	312	20	—	10	6	104	4	3	37	7	2	6	6	14	2	29	21	5	21	2	8
20 to 49 employees.....	259	27	—	7	7	73	8	6	30	4	2	6	5	17	—	15	19	5	11	2	9
50 to 99 employees.....	138	12	—	9	5	30	2	2	8	4	2	8	11	5	2	8	9	7	4	1	2
100 to 249 employees.....	126	16	—	12	3	29	2	5	6	1	1	8	11	2	1	4	6	8	2	3	3
250 to 499 employees.....	45	2	—	3	2	5	1	7	3	—	—	2	1	—	—	1	2	6	—	—	—
500 to 999 employees.....	25	3	—	3	1	1	—	5	1	—	—	—	3	—	—	—	1	1	—	—	—
1,000 to 2,499 employees.....	9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	1	—	—
2,500 employees or more.....	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Maryland	4 244	322	—	26	203	258	169	82	1 086	161	34	137	14	183	56	343	378	189	120	164	206
1 to 4 employees.....	1 356	72	—	9	67	101	58	10	416	37	13	27	3	51	14	83	138	43	48	58	95
5 to 9 employees.....	697	56	—	4	27	48	33	7	208	24	7	14	3	21	9	47	74	30	19	20	36
10 to 19 employees.....	717	38	—	2	30	52	35	16	178	31	5	31	6	37	7	77	52	24	21	24	33
20 to 49 employees.....	697	57	—	3	33	38	22	18	151	25	3	26	1	43	13	71	61	42	11	27	29
50 to 99 employees.....	305	36	—	3	19	5	12	9	57	18	1	14	—	18	5	37	25	12	4	12	6
100 to 249 employees.....	304	39	—	3	17	13	8	18	59	12	4	14	1	9	2	21	15	22	8	14	6
250 to 499 employees.....	111	19	—	1	8	1	1	2	14	8	1	9	2	4	2	7	9	8	4	1	1
500 to 999 employees.....	36	4	—	1	2	—	—	—	2	5	—	2	—	—	3	—	3	4	2	3	—
1,000 to 2,499 employees.....	13	1	—	—	—	—	—	1	1	1	—	—	—	—	—	—	—	4	2	3	—
2,500 employees or more.....	8	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—	1	—	2	3	—
Massachusetts	11 006	509	1	213	574	443	297	271	1 812	303	61	562	176	285	219	1 158	1 722	741	209	591	529
1 to 4 employees.....	3 039	128	—	33	136	184	96	27	676	68	22	103	46	67	31	274	573	157	65	114	196
5 to 9 employees.....	1 862	65	1	26	88	94	66	15	372	54	10	62	29	65	29	206	324	94	32	95	99
10 to 19 employees.....	1 921	107	—	33	95	81	44	34	297	51	13	100	29	55	39	237	309	107	34	94	86
20 to 49 employees.....	2 043	92	—	20	112	59	51	72	261	69	10	154	31	55	50	262	289	145	37	125	76
50 to 99 employees.....	988	59	—	24	74	17	24	51	95	32	3	71	23	30	37	95	120	84	19	60	32
100 to 249 employees.....	738	38	—	32	46	7	14	56	72	17	3	51	12	9	22	63	80	89	11	53	25
250 to 499 employees.....	241	16	—	12	16	1	1	12	21	10	—	15	6	2	8	13	22	35	6	21	7
500 to 999 employees.....	118	4	—	1	7	—	—	3	15	2	—	6	—	1	2	6	18	20	1	14	5
1,000 to 2,499 employees.....	39	—	—	2	—	—	—	—	2	—	—	—	—	—	—	—	5	6	1	11	3
2,500 employees or more.....	17	—	—	—	—	—	—	—	1	—	—	—	—	—	1	—	2	4	3	4	—
Michigan	16 010	579	—	46	240	1 071	368	232	1 976	402	74	837	30	603	502	2 479	4 179	446	678	311	500
1 to 4 employees.....	4 511	140	—	15	107	484	101	23	834	103	25	138	11	214	74	470	1 126	128	144	87	228
5 to 9 employees.....	2 800	88	—	7	42	227	50	21	421	89	16	94	5	108	82	414	848	66	69	56	110
10 to 19 employees.....	2 945	80	—	12	24	189	56	38	304	74	14	136	4	133	87	505	935	66	103	50	72
20 to 49 employees.....	2 836	109	—	10	32	111	72	55	236	71	12	195	3	93	133	592	800	84	62	62	106
50 to 99 employees.....	1 335	61	—	4	13	38	38	35	105	38	5	138	2	28	59	262	275	43	83	25	64

See footnotes at end of table.

Table 5. Distribution of Establishments by Employment-Size Class and Major Group by State: 1987—Con.

Geographic area and employment-size class	All establishments ²	Number of establishments by major group																				39	Auxiliaries
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38			
		[Major group descriptions are: 20—food and kindred products; 21—tobacco manufactures; 22—textile mill products; 23—apparel and other textile products; 24—lumber and wood products; 25—furniture and fixtures; 26—paper and allied products; 27—printing and publishing; 28—chemicals and allied products; 29—petroleum and coal products; 30—rubber and miscellaneous plastics products; 31—leather and leather products; 32—stone, clay, and glass products; 33—primary metal industries; 34—fabricated metal products; 35—industrial machinery and equipment; 36—electronic and other electric equipment; 37—transportation equipment; 38—instruments and related products; 39—miscellaneous manufacturing industries. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendices. Data in this table may differ slightly from the area reports previously published. These differences are due to corrections which were made for minor errors identified after the area reports were issued.]																					
Michigan—Con.																							
100 to 249 employees.....	943	66	—	4	8	19	36	38	51	29	1	100	3	16	67	176	140	37	78	15	6	53	
250 to 499 employees.....	297	24	—	1	4	3	7	18	16	10	—	28	2	7	15	38	32	15	38	11	4	23	
500 to 999 employees.....	117	8	—	—	4	—	6	2	7	4	—	8	—	3	8	10	15	5	15	4	—	18	
1,000 to 2,499 employees.....	66	3	—	—	4	—	1	2	2	1	—	—	—	—	4	7	6	1	20	1	—	13	
2,500 employees or more.....	51	—	—	—	2	—	1	—	—	3	—	—	—	—	3	5	2	1	24	—	—	10	
Minnesota																							
1 to 4 employees.....	2 322	106	—	7	67	282	66	11	571	53	6	72	7	134	15	186	390	67	42	65	147	28	
5 to 9 employees.....	1 256	67	—	6	37	119	32	12	295	34	8	39	2	72	23	149	223	35	15	29	54	23	
10 to 19 employees.....	72	3	—	3	29	73	37	18	200	20	3	53	2	58	23	119	222	39	22	38	27	32	
20 to 49 employees.....	1 149	102	—	5	23	52	28	21	167	35	6	76	2	44	25	161	193	66	16	39	32	56	
50 to 99 employees.....	564	51	—	3	13	25	11	13	90	10	7	33	3	15	16	70	92	34	12	20	15	31	
100 to 249 employees.....	455	72	—	5	4	15	14	20	35	9	2	29	—	8	14	46	66	42	11	31	10	22	
250 to 499 employees.....	150	31	—	1	1	3	1	5	17	2	—	9	1	3	4	10	17	17	4	11	2	11	
500 to 999 employees.....	61	11	—	—	—	—	1	3	4	3	—	2	—	1	2	3	10	6	2	4	—	9	
1,000 to 2,499 employees.....	34	3	—	—	—	—	—	3	2	—	—	—	—	—	—	2	8	3	1	—	—	5	
2,500 employees or more.....	12	—	—	—	2	—	—	—	2	—	—	—	—	—	—	—	2	—	—	2	—	2	
Mississippi																							
1 to 4 employees.....	1 016	50	—	6	31	402	48	8	151	26	5	23	—	37	5	48	97	10	16	10	34	9	
5 to 9 employees.....	26	26	—	4	9	214	28	2	72	17	6	15	1	48	7	28	63	1	16	4	8	10	
10 to 19 employees.....	474	33	—	4	14	141	27	10	54	9	5	17	1	29	2	28	49	8	7	5	18	13	
20 to 49 employees.....	435	28	—	7	12	97	43	8	36	12	6	30	1	21	6	47	33	7	17	2	9	13	
50 to 99 employees.....	277	34	—	5	29	60	27	11	11	9	1	12	—	12	6	21	13	8	7	5	3	3	
100 to 249 employees.....	312	29	—	4	77	38	25	11	6	8	—	18	3	14	10	15	9	22	10	4	4	4	
250 to 499 employees.....	151	17	—	4	39	10	17	4	4	2	—	6	—	2	6	5	10	16	4	1	2	2	
500 to 999 employees.....	59	7	—	4	8	1	10	1	1	3	—	1	—	1	—	4	4	5	2	—	—	—	
1,000 to 2,499 employees.....	14	2	—	1	—	—	—	—	—	—	—	—	—	—	—	1	2	4	—	—	—	—	
2,500 employees or more.....	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—	
Missouri																							
1 to 4 employees.....	7 290	488	1	30	301	634	194	134	1 497	345	50	270	95	380	141	715	916	214	214	135	289	247	
5 to 9 employees.....	2 235	133	—	10	71	269	52	13	608	90	18	48	16	92	29	171	322	53	47	40	122	30	
10 to 19 employees.....	1 316	67	—	9	25	129	31	9	346	67	15	35	9	93	15	113	200	24	35	16	49	29	
20 to 49 employees.....	1 159	88	—	4	36	111	38	14	226	51	10	44	8	80	21	153	154	25	25	14	46	40	
50 to 99 employees.....	561	54	—	2	44	26	19	21	67	32	3	37	6	18	15	57	51	18	24	16	15	36	
100 to 249 employees.....	496	45	—	—	55	10	12	33	46	27	2	36	13	18	24	45	33	26	20	11	12	28	
250 to 499 employees.....	204	27	—	—	15	2	4	2	11	9	—	10	23	4	7	17	19	16	12	7	1	16	
500 to 999 employees.....	65	10	—	—	2	—	3	2	3	4	1	1	3	3	1	2	5	17	2	1	—	5	
1,000 to 2,499 employees.....	22	1	—	—	—	—	1	2	3	3	—	—	—	—	2	2	1	2	3	—	—	3	
2,500 employees or more.....	16	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	1	7	—	—	—	
Montana																							
1 to 4 employees.....	1 239	115	—	4	18	457	22	4	195	32	8	14	9	97	12	55	82	17	23	16	51	8	
5 to 9 employees.....	637	48	—	4	10	237	12	2	94	12	2	6	6	49	5	30	55	9	14	7	31	4	
10 to 19 employees.....	251	19	—	—	3	92	5	1	42	9	1	5	1	27	3	11	14	1	3	5	9	1	
20 to 49 employees.....	167	24	—	—	2	60	3	1	33	6	—	1	1	14	1	6	8	2	3	5	4	1	
50 to 99 employees.....	105	12	—	—	2	37	4	—	16	3	1	2	1	3	—	7	5	4	3	2	2	1	
100 to 249 employees.....	37	9	—	—	—	8	1	—	6	1	—	—	—	4	—	—	—	—	—	—	—	—	
250 to 499 employees.....	32	2	—	—	—	20	—	—	3	1	2	—	—	—	—	1	—	1	—	1	—	—	
500 to 999 employees.....	6	—	—	—	—	1	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	
2,500 employees or more.....	4	—	—	—	—	2	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	
Nebraska																							
1 to 4 employees.....	1 876	285	—	6	50	92	46	17	450	51	6	60	9	134	25	118	264	58	43	31	86	45	
5 to 9 employees.....	607	51	—	—	18	38	14	3	184	6	2	10	5	48	7	28	100	18	13	8	41	13	
10 to 19 employees.....	361	40	—	3	13	21	9	—	98	13	2	6	—	39	3	17	53	8	5	3	16	9	
20 to 49 employees.....	277	46	—	—	4	14	12	2	70	4	1	11	1	21	5	21	38	5	6	5	11	3	
50 to 99 employees.....	290	63	—	—	5	11	7	4	57	11	—	12	2	21	1	23	37	7	4	2	14	9	
100 to 249 employees.....	154	33	—	2	5	3	1	2	26	9	1	10	—	1	4	14	21	7	3	3	4	5	
250 to 499 employees.....	109	34	—	1	3	4	1	5	8	6	—	7	1	4	3	8	8	6	4	4	—	2	
500 to 999 employees.....	46	9	—	—	2	1	1	1	5	2	—	3	—	—	1	5	3	3	3	4	—	3	
1,000 to 2,499 employees.....	24	5	—	—	—	—	—	—	2	—	—	—	—	—	—	2	4	2	5	2	—	—	
2,500 employees or more.....	6	3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
2,500 employees or more.....	2	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

See footnotes at end of table.

Table 5. Distribution of Establishments by Employment-Size Class and Major Group by State: 1987—Con.

[Major group descriptions are: 20—food and kindred products; 21—tobacco manufactures; 22—textile mill products; 23—apparel and other textile products; 24—lumber and wood products; 25—furniture and fixtures; 26—paper and allied products; 27—printing and publishing; 28—chemicals and allied products; 29—petroleum and coal products; 30—rubber and miscellaneous plastics products; 31—leather and leather products; 32—stone, clay, and glass products; 33—primary metal industries; 34—fabricated metal products; 35—industrial machinery and equipment; 36—electronic and other electric equipment; 37—transportation equipment; 38—instruments and related products; 39—miscellaneous manufacturing industries. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes. Data in this table may differ slightly from the area reports previously published. These differences are due to corrections which were made for minor errors identified after the area reports were issued.]

Geographic area and employment-size class	All establishments ^{1,2}	Number of establishments by major group																39	Auxiliaries			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35			36	37	38
Nevada																						
1 to 4 employees	975	56	-	8	33	66	35	8	227	37	3	41	2	57	9	84	106	37	27	35	76	28
5 to 9 employees	404	22	-	6	16	31	17	3	112	12	1	15	2	15	1	28	43	13	15	9	35	8
10 to 19 employees	191	6	-	1	8	9	5	2	42	7	-	3	-	12	-	13	33	7	4	10	13	11
20 to 49 employees	139	8	-	-	3	14	7	3	31	7	-	6	-	7	2	19	7	5	2	6	7	8
50 to 99 employees	57	5	-	-	1	4	1	-	11	1	-	3	-	11	1	6	5	1	1	5	5	1
100 to 249 employees	39	5	-	-	-	1	-	-	3	3	-	7	-	4	2	2	3	3	2	-	4	-
250 to 499 employees	9	-	-	-	-	-	-	-	4	-	-	-	-	-	-	1	2	2	-	-	-	-
500 to 999 employees	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
New Hampshire																						
1 to 4 employees	2 328	66	-	57	76	372	51	41	363	31	9	96	31	79	43	186	376	171	33	102	105	40
5 to 9 employees	850	24	-	9	32	195	25	3	155	5	-	12	5	30	9	57	156	37	15	23	50	8
10 to 19 employees	393	10	-	6	8	63	7	5	72	9	5	12	6	16	7	42	69	31	6	14	19	3
20 to 49 employees	350	12	-	10	13	39	7	5	68	9	1	11	5	16	6	26	52	18	4	22	19	7
50 to 99 employees	325	6	-	16	15	47	6	8	33	4	2	19	3	11	11	32	43	32	4	17	7	7
100 to 249 employees	172	9	-	5	4	16	5	5	14	1	1	17	2	11	4	16	24	14	1	9	5	6
250 to 499 employees	145	3	-	4	4	11	5	5	15	2	-	15	6	3	5	8	14	26	-	9	3	7
500 to 999 employees	58	1	-	6	-	1	-	2	6	1	-	6	4	1	2	3	9	7	-	4	2	1
1,000 to 2,499 employees	25	1	-	1	-	-	-	3	-	-	-	3	-	-	1	2	8	5	1	1	-	1
2,500 employees or more	9	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Jersey																						
1 to 4 employees	14 442	589	6	378	1 394	344	328	337	2 492	912	75	728	75	445	256	1 443	1 914	764	237	525	633	567
5 to 9 employees	4 041	143	4	72	399	136	95	33	1 019	173	20	126	24	111	40	335	667	158	77	137	216	56
10 to 19 employees	2 432	77	-	40	226	75	61	30	518	107	13	86	16	88	24	280	419	100	42	84	111	63
20 to 49 employees	2 502	93	-	88	233	61	54	44	394	150	14	120	8	103	68	308	377	132	36	93	92	68
50 to 99 employees	2 648	111	1	85	308	46	60	88	310	197	9	179	14	108	68	298	267	154	34	92	112	68
100 to 249 employees	1 364	70	-	61	137	15	32	67	129	139	12	120	6	40	31	117	100	93	18	41	60	76
250 to 499 employees	992	68	1	30	74	10	19	57	80	85	4	78	5	26	27	86	56	87	17	48	31	40
500 to 999 employees	293	14	-	2	15	-	5	14	31	36	1	19	2	10	14	15	14	29	7	16	9	103
1,000 to 2,499 employees	104	10	-	1	1	1	1	2	5	15	2	-	-	4	2	2	11	7	4	5	2	30
2,500 employees or more	54	3	-	-	-	-	2	2	6	8	-	-	-	3	1	1	3	3	1	6	-	15
12	12	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	1	1	3	-	4
New Mexico																						
1 to 4 employees	1 322	98	-	10	26	143	60	6	253	42	13	29	6	127	16	92	146	51	25	35	131	13
5 to 9 employees	571	30	-	7	17	61	38	-	115	18	4	14	3	47	2	42	59	16	9	17	68	4
10 to 19 employees	273	18	-	2	2	23	6	-	66	14	3	3	1	22	4	22	34	13	8	5	26	3
20 to 49 employees	194	8	-	2	2	24	11	5	34	3	1	5	-	22	4	11	29	5	2	20	4	4
50 to 99 employees	174	25	-	-	2	22	4	1	24	4	2	6	-	28	2	14	16	4	2	3	13	2
100 to 249 employees	59	7	-	-	-	9	1	-	11	2	2	-	1	5	1	2	6	4	1	3	4	-
250 to 499 employees	30	9	-	-	1	2	-	-	2	1	-	1	1	3	1	1	1	3	1	3	-	-
500 to 999 employees	8	1	-	-	-	2	-	-	-	-	1	-	-	-	-	-	-	3	-	-	-	-
1,000 to 2,499 employees	10	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	1	-	-	-
2,500 employees or more	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-
1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New York																						
1 to 4 employees	29 608	1 341	6	834	5 057	1 137	977	596	5 895	746	162	818	464	733	351	2 213	2 629	1 225	429	857	2 337	801
5 to 9 employees	9 680	380	3	220	1 492	491	376	83	2 424	211	56	178	163	242	77	602	913	302	138	240	977	112
10 to 19 employees	5 347	222	-	107	874	231	165	66	1 229	128	39	114	60	148	47	428	537	180	76	141	439	116
20 to 49 employees	5 081	217	-	171	939	193	162	105	881	128	29	141	88	139	60	448	498	184	69	134	372	123
50 to 99 employees	2 235	126	-	194	1 119	143	150	133	789	112	31	189	82	113	67	412	393	213	63	142	345	142
100 to 249 employees	1 439	109	1	99	424	54	71	96	281	56	7	114	38	45	45	194	131	133	29	60	123	106
250 to 499 employees	451	40	-	32	164	24	41	80	198	67	-	65	26	23	31	93	91	127	27	80	56	104
500 to 999 employees	186	8	-	9	36	1	9	25	51	30	-	9	3	16	11	28	35	52	11	26	17	42
1,000 to 2,499 employees	88	4	-	2	8	-	2	8	19	10	-	7	4	6	10	5	20	21	6	14	6	30
2,500 employees or more	35	-	-	-	-	-	-	-	4	1	-	-	-	-	3	1	3	4	9	12	2	18
8	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	8	-	8
North Carolina																						
1 to 4 employees	10 995	523	20	1 185	780	1 858	759	201	1 284	321	35	372	36	462	103	628	1 151	316	230	160	304	267
5 to 9 employees	3 033	111	-	139	137	733	187	13	538	61	18	44	9	119	20	148	402	68	70	43	135	38
10 to 19 employees	1 701	76	-	78	53	381	89	17	304	55	10	47	4	74	6	98	233	42	34	21	46	33
20 to 49 employees	1 494	65	1	86	68	282	87	30	179	51	2	51	5	86	19	109	199	25	24	29	45	39
50 to 99 employees	1 737	116	-	210	138	273	105	43	150	63	1	74	5	86	16	121	149	45	31	20	42	49
100 to 249 employees	1 124	56	3	167	132	118	89	38	65	38	1	73	3	44	17	77	79	31	19	18	19	37

See footnotes at end of table.

Table 5. Distribution of Establishments by Employment-Size Class and Major Group by State: 1987—Con.

[Major group descriptions are: 20—food and kindred products; 21—tobacco manufactures; 22—textile mill products; 23—apparel and other textile products; 24—lumber and wood products; 25—furniture and fixtures; 26—paper and allied products; 27—printing and publishing; 28—chemicals and allied products; 29—petroleum and coal products; 30—rubber and miscellaneous plastics products; 31—leather and leather products; 32—stone, clay, and glass products; 33—primary metal industries; 34—fabricated metal products; 35—industrial machinery and equipment; 36—electronic and other electric equipment; 37—transportation equipment; 38—instruments and related products; 39—miscellaneous manufacturing industries. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes. Data in this table may differ slightly from the area reports previously published. These differences are due to corrections which were made for minor errors identified after the area reports were issued.]

Geographic area and employment-size class	All establishments ^{1,2}	Number of establishments by major group																	38	39	Auxiliaries	
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36				37
North Carolina—Con.																						
100 to 249 employees.....	1 076	51	5	259	162	56	106	48	36	26	3	50	5	24	13	47	55	39	28	12		
250 to 499 employees.....	521	30	5	147	71	13	59	6	6	11	—	24	4	11	9	24	20	37	13	8		
500 to 999 employees.....	222	12	1	75	17	2	27	4	5	7	—	4	1	4	3	4	10	22	6	1		
1,000 to 2,499 employees.....	75	4	4	23	2	—	9	—	1	8	—	4	—	2	—	—	3	4	3	—		
2,500 employees or more.....	12	2	1	1	—	—	1	—	—	1	—	—	—	—	—	—	1	—	—	—		
North Dakota																						
1 to 4 employees.....	627	88	—	1	16	33	12	3	165	23	5	12	—	64	1	36	101	10	14	6		
5 to 9 employees.....	268	25	—	1	9	17	6	—	73	14	3	5	—	35	1	14	38	6	2	3		
10 to 19 employees.....	133	14	—	—	1	4	1	—	42	4	1	2	—	12	—	8	28	—	5	1		
20 to 49 employees.....	87	14	—	—	2	7	1	2	24	1	—	—	—	11	—	6	14	—	2	1		
50 to 99 employees.....	36	9	—	—	1	1	1	1	15	2	—	3	—	4	—	3	11	1	3	1		
100 to 249 employees.....	23	10	—	—	1	—	1	—	8	—	—	1	—	2	—	3	6	—	—	—		
250 to 499 employees.....	11	2	—	—	1	—	1	—	2	1	1	1	—	—	—	—	1	2	2	1		
500 to 999 employees.....	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	1	2	—		
Ohio																						
1 to 4 employees.....	17 544	757	2	86	334	876	357	382	2 397	656	193	1 110	40	889	604	2 498	3 778	618	463	420		
5 to 9 employees.....	4 682	171	1	29	121	379	105	45	982	124	60	175	11	221	86	460	1 110	129	88	117		
10 to 19 employees.....	2 901	110	—	12	45	136	68	36	488	102	51	130	6	150	70	392	770	100	57	206		
20 to 49 employees.....	3 079	112	—	10	59	148	61	61	354	116	28	169	8	200	91	509	772	100	58	66		
50 to 99 employees.....	3 124	127	—	12	54	135	59	93	289	140	30	243	7	166	128	559	623	103	61	59		
100 to 249 employees.....	1 665	89	—	11	24	52	26	59	162	74	13	176	1	75	89	307	623	71	43	32		
250 to 499 employees.....	1 283	92	1	9	20	18	23	65	77	66	7	140	4	52	81	182	165	68	67	32		
500 to 999 employees.....	501	40	—	2	8	6	10	19	32	24	3	51	3	11	32	62	56	43	37	20		
1,000 to 2,499 employees.....	181	14	—	2	1	2	4	3	6	5	1	19	—	10	15	13	28	16	17	6		
2,500 employees or more.....	37	—	—	—	—	—	1	3	—	—	—	—	—	4	6	9	10	12	10	3		
Oklahoma																						
1 to 4 employees.....	3 728	231	—	9	143	145	77	42	705	117	49	130	12	263	84	491	677	120	137	96		
5 to 9 employees.....	1 426	69	—	2	57	54	33	7	359	47	17	35	5	76	21	152	296	43	40	32		
10 to 19 employees.....	708	30	—	1	12	35	15	5	148	19	9	24	2	65	12	97	142	22	22	25		
20 to 49 employees.....	576	38	—	1	12	20	11	7	108	19	6	21	—	50	7	97	98	10	23	13		
50 to 99 employees.....	461	32	—	2	16	24	9	7	53	15	4	20	1	33	18	78	65	16	28	14		
100 to 249 employees.....	238	26	—	—	18	5	7	4	22	9	5	12	2	18	13	32	31	9	13	6		
250 to 499 employees.....	213	25	—	2	21	6	1	9	11	8	6	11	2	11	9	26	26	11	13	5		
500 to 999 employees.....	69	8	—	1	7	1	1	2	2	—	—	3	—	7	4	5	11	8	4	3		
1,000 to 2,499 employees.....	23	2	—	—	—	—	—	1	1	—	2	—	—	2	—	4	6	—	2	1		
2,500 employees or more.....	3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	—	2	—		
Oregon																						
1 to 4 employees.....	6 353	376	—	28	127	2 110	164	65	827	131	23	167	24	205	80	456	672	209	180	158		
5 to 9 employees.....	2 662	116	—	12	59	921	69	14	412	45	7	52	12	85	21	172	294	72	70	68		
10 to 19 employees.....	1 139	42	—	3	27	354	35	2	181	27	4	28	—	49	12	125	34	35	32	31		
20 to 49 employees.....	909	56	—	4	19	274	31	13	100	20	4	29	3	38	11	76	119	26	29	16		
50 to 99 employees.....	787	57	—	3	9	243	16	9	86	24	4	36	4	20	12	68	82	34	18	14		
100 to 249 employees.....	422	51	—	4	6	142	10	9	26	13	3	15	4	6	8	33	28	22	9	12		
250 to 499 employees.....	289	35	—	2	5	127	1	6	16	2	1	6	1	6	4	18	15	15	11	8		
500 to 999 employees.....	100	11	—	—	2	43	2	7	5	—	—	1	—	1	5	1	6	2	4	2		
1,000 to 2,499 employees.....	32	6	—	—	—	5	—	5	—	—	—	—	—	—	5	1	3	2	4	3		
2,500 employees or more.....	1	—	—	—	—	—	—	—	—	—	—	—	—	—	2	—	2	1	2	1		
Pennsylvania																						
1 to 4 employees.....	17 844	1 127	11	351	1 412	1 428	460	367	2 452	564	170	694	112	852	502	1 978	2 608	765	320	510		
5 to 9 employees.....	4 900	248	2	52	248	638	141	30	977	139	52	119	16	224	74	426	801	187	73	133		
10 to 19 employees.....	2 809	151	—	36	143	281	69	31	489	102	37	104	14	149	33	339	495	171	43	94		
20 to 49 employees.....	2 902	183	—	56	174	211	89	48	358	109	25	102	15	179	77	359	524	116	53	67		
50 to 99 employees.....	3 176	208	4	75	327	176	85	98	296	118	32	163	19	140	118	425	429	148	42	87		
100 to 249 employees.....	1 752	123	3	66	279	62	41	51	159	47	7	102	13	69	73	219	167	75	36	50		
250 to 499 employees.....	1 445	136	2	44	184	45	36	75	111	37	9	81	22	54	64	145	129	96	34	36		
500 to 999 employees.....	535	54	—	21	13	10	14	23	41	19	4	26	12	18	35	41	38	45	14	25		
1,000 to 2,499 employees.....	220	15	—	7	13	5	1	7	16	4	4	7	1	18	13	19	17	15	16	11		
2,500 employees or more.....	88	8	—	1	2	—	—	4	4	—	—	—	—	1	9	5	8	9	5	7		
17	1	—	—	—	—	—	—	—	1	1	—	—	—	—	6	—	—	3	4	—		

See footnotes at end of table.

Table 5. Distribution of Establishments by Employment-Size Class and Major Group by State: 1987—Con.

[Major group descriptions are: 20—food and kindred products; 21—tobacco manufactures; 22—textile mill products; 23—apparel and other textile products; 24—lumber and wood products; 25—furniture and fixtures; 26—paper and allied products; 27—printing and publishing; 28—chemicals and allied products; 29—petroleum and coal products; 30—rubber and miscellaneous plastics products; 31—leather and leather products; 32—stone, clay, and glass products; 33—primary metal industries; 34—fabricated metal products; 35—industrial machinery and equipment; 36—electronic and other electric equipment; 37—transportation equipment; 38—instruments and related products; 39—miscellaneous manufacturing industries. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendices. Data in this table may differ slightly from the area reports previously published. These differences are due to corrections which were made for minor errors identified after the area reports were issued.]

Geographic area and employment-size class	All establishments ^{1,2}	Number of establishments by major group																	39	Auxiliaries
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Rhode Island -----		103	-	133	85	69	40	48	277	58	2	130	10	42	83	391	293	76	74	69
1 to 4 employees-----	2 878	-	-	22	33	31	11	11	121	17	1	22	1	15	14	114	123	16	32	19
5 to 9 employees-----	972	40	-	10	9	15	8	2	58	11	1	18	1	6	15	72	63	6	8	10
10 to 19 employees-----	491	15	-	23	18	10	6	9	41	12	1	36	3	6	19	86	52	12	9	11
20 to 49 employees-----	516	16	-	29	13	10	9	14	31	11	-	27	2	10	14	76	37	11	15	7
50 to 99 employees-----	453	9	-	19	7	1	5	6	15	2	-	16	1	2	7	27	10	11	4	9
100 to 249 employees-----	230	6	-	24	4	1	-	5	8	3	-	5	-	-	6	12	6	13	3	5
250 to 499 employees-----	139	1	-	5	1	1	-	1	2	1	-	1	1	1	5	2	5	2	4	3
500 to 999 employees-----	36	1	-	1	1	-	-	-	-	-	-	-	-	-	2	1	2	1	3	8
1,000 to 2,499 employees-----	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
2,500 employees or more-----	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
South Carolina -----		162	2	377	380	897	85	82	552	169	16	168	5	189	61	321	524	117	111	51
1 to 4 employees-----	4 534	-	-	26	59	405	29	8	256	30	8	19	1	41	8	77	178	21	37	13
5 to 9 employees-----	1 336	39	1	20	27	191	15	8	125	28	3	24	1	36	8	53	99	12	15	6
10 to 19 employees-----	718	20	-	20	35	137	17	8	79	11	-	25	1	37	7	51	84	12	14	5
20 to 49 employees-----	591	12	-	38	64	93	15	16	55	35	3	31	1	38	9	69	59	14	13	10
50 to 99 employees-----	641	35	-	42	61	38	10	17	17	21	1	25	1	18	10	26	46	8	12	4
100 to 249 employees-----	402	20	-	105	28	26	4	12	14	21	1	25	-	10	10	30	36	20	6	2
250 to 499 employees-----	438	23	1	72	93	7	3	3	2	9	-	9	-	6	5	11	9	18	11	7
500 to 999 employees-----	249	7	-	44	11	-	2	7	4	6	-	6	-	2	4	4	9	10	2	3
1,000 to 2,499 employees-----	119	3	-	10	2	-	-	3	-	1	-	3	-	-	-	-	4	2	1	1
2,500 employees or more-----	38	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
South Dakota -----		94	-	3	26	65	13	8	190	23	-	27	1	67	4	39	95	25	28	7
1 to 4 employees-----	764	-	-	2	7	32	3	2	90	9	-	8	-	34	1	14	37	7	10	3
5 to 9 employees-----	304	28	-	3	3	14	3	3	40	7	-	4	1	17	-	8	5	2	1	-
10 to 19 employees-----	122	11	-	2	2	5	5	2	33	6	-	3	-	6	-	6	14	4	6	-
20 to 49 employees-----	107	10	-	8	9	2	2	2	19	3	-	8	-	7	2	5	16	3	6	1
50 to 99 employees-----	113	17	-	5	5	2	-	-	3	1	-	2	-	2	-	4	10	2	3	-
100 to 249 employees-----	59	16	-	1	1	2	-	1	5	-	-	1	-	1	-	2	9	3	1	1
250 to 499 employees-----	39	8	-	-	1	-	-	1	-	-	-	1	-	-	-	-	3	2	1	-
500 to 999 employees-----	14	3	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	1	-	-
1,000 to 2,499 employees-----	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,500 employees or more-----	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tennessee -----		356	8	137	485	831	301	160	1 121	243	48	277	66	335	123	622	742	236	214	106
1 to 4 employees-----	6 864	-	-	18	84	325	77	16	496	64	20	53	15	74	18	127	233	74	52	45
5 to 9 employees-----	2 027	89	-	6	29	157	36	6	236	33	9	39	4	75	20	106	177	28	23	16
10 to 19 employees-----	929	31	-	11	30	146	39	18	153	24	10	51	5	68	26	198	166	39	22	39
20 to 49 employees-----	1 069	42	-	26	75	110	54	36	117	35	4	59	6	81	26	146	121	32	32	11
50 to 99 employees-----	1 073	47	-	18	81	40	42	31	66	17	3	34	13	31	18	64	41	21	22	15
100 to 249 employees-----	609	53	2	30	113	37	23	40	35	26	1	27	9	16	21	50	33	21	28	3
250 to 499 employees-----	294	29	3	17	59	3	13	8	8	8	1	16	13	5	7	23	17	22	16	6
500 to 999 employees-----	239	12	-	8	12	3	12	2	6	4	-	4	1	1	3	7	7	15	9	3
1,000 to 2,499 employees-----	120	1	-	3	2	-	2	2	5	7	-	1	-	-	2	2	6	2	3	4
2,500 employees or more-----	40	1	-	-	-	-	-	-	-	4	-	1	-	-	-	-	1	1	2	-
Texas -----		1 172	3	105	847	1 179	491	296	3 906	911	184	834	143	1 160	339	2 245	3 075	814	617	553
1 to 4 employees-----	20 370	-	-	36	305	458	157	44	1 894	246	63	186	45	361	74	639	1 247	236	204	187
5 to 9 employees-----	7 202	299	-	22	112	245	129	29	853	157	26	119	28	182	44	421	650	114	109	106
10 to 19 employees-----	3 724	156	1	16	116	198	83	40	538	142	19	161	18	255	63	407	494	126	106	77
20 to 49 employees-----	3 261	162	1	14	114	136	82	73	357	161	22	196	29	207	65	451	391	141	95	91
50 to 99 employees-----	3 063	205	-	8	89	63	38	49	148	67	16	99	12	73	36	170	142	69	41	28
100 to 249 employees-----	1 410	136	1	8	89	63	38	49	148	67	16	99	12	73	36	170	142	69	41	28
250 to 499 employees-----	1 074	130	-	6	61	57	30	43	83	83	12	54	3	58	31	120	91	73	32	31
500 to 999 employees-----	374	50	-	2	25	20	7	7	23	14	13	13	6	15	12	32	36	32	11	16
1,000 to 2,499 employees-----	170	29	-	1	22	2	2	6	2	23	5	4	2	9	10	2	14	10	9	10
2,500 employees or more-----	73	5	-	3	8	-	3	3	8	9	7	2	-	-	4	2	9	9	5	3
Utah -----		154	1	9	110	158	92	21	371	76	19	70	3	100	38	221	252	102	62	75
1 to 4 employees-----	2 083	-	-	4	42	62	40	5	177	26	7	24	1	28	9	69	102	31	23	20
5 to 9 employees-----	767	31	1	3	18	33	11	3	73	13	3	13	1	14	5	45	50	20	9	18
10 to 19 employees-----	390	18	-	6	25	12	3	48	48	15	2	16	9	1	7	37	45	15	8	9
20 to 49 employees-----	315	34	-	11	26	19	19	3	43	13	1	6	1	20	7	36	31	12	10	10
50 to 99 employees-----	298	30	-	2	11	26	19	4	14	13	2	6	-	10	7	36	31	12	10	9
100 to 249 employees-----	140	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 5. Distribution of Establishments by Employment-Size Class and Major Group by State: 1987 — Con.

[Major group descriptions are: 20—food and kindred products; 21—tobacco manufactures; 22—textile mill products; 23—apparel and other textile products; 24—lumber and wood products; 25—furniture and fixtures; 26—paper and allied products; 27—printing and publishing; 28—chemicals and allied products; 29—petroleum and coal products; 30—rubber and miscellaneous plastics products; 31—leather and leather products; 32—stone, clay, and glass products; 33—primary metal industries; 34—fabricated metal products; 35—industrial machinery and equipment; 36—electronic and other electric equipment; 37—transportation equipment; 38—instrument and related products; 39—miscellaneous manufacturing industries. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes. Data in this table may differ slightly from the area reports previously published. These differences are due to corrections which were made for minor errors identified after the area reports were issued.]

Geographic area and employment-size class	All establishments ^{1,2}	Number of establishments by major group																			39	Auxiliaries
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38		
Utah—Con.																						
100 to 249 employees.....	118	18	—	—	20	6	3	2	14	3	4	2	—	8	4	8	10	9	2	3	2	—
250 to 499 employees.....	33	5	—	—	2	1	1	1	1	—	—	—	—	1	4	3	2	2	2	8	1	1
500 to 999 employees.....	13	2	—	—	1	—	2	—	—	—	—	—	—	—	—	—	—	1	—	3	—	
1,000 to 2,499 employees.....	7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	—	—	—	
2,500 employees or more.....	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	—	—	
1 262 Vermont.....	1 262	85	—	27	55	274	51	19	211	16	1	37	8	118	10	76	104	39	22	25	77	7
1 to 4 employees.....	520	22	—	11	21	152	19	1	85	4	—	9	4	42	—	33	41	9	10	8	48	1
5 to 9 employees.....	226	15	—	4	8	46	5	2	47	5	—	6	1	15	2	15	20	6	2	7	16	4
10 to 19 employees.....	183	15	—	2	11	34	8	3	31	1	1	4	—	29	1	12	14	8	2	3	2	2
20 to 49 employees.....	158	16	—	6	7	22	9	2	25	3	—	7	2	22	2	6	9	5	3	2	10	—
50 to 99 employees.....	83	9	—	3	5	15	6	2	11	1	—	2	1	5	2	4	8	2	4	3	—	—
100 to 249 employees.....	71	8	—	1	3	4	2	7	10	2	—	9	—	5	2	3	8	5	—	1	1	—
250 to 499 employees.....	15	—	—	—	—	1	1	2	2	—	—	—	—	—	1	2	3	3	—	—	—	
500 to 999 employees.....	3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
1,000 to 2,499 employees.....	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
2,500 employees or more.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
6 137 Virginia.....	6 137	392	13	102	332	1 199	224	104	1 242	175	16	134	16	346	66	327	568	209	158	138	190	196
1 to 4 employees.....	1 967	80	—	10	74	528	71	7	506	39	6	17	3	79	10	75	206	48	48	39	77	44
5 to 9 employees.....	1 024	68	—	6	34	218	34	4	284	30	3	18	1	57	10	62	98	30	14	19	26	28
10 to 19 employees.....	916	40	—	9	25	185	28	14	191	35	2	14	3	63	8	56	95	27	23	20	32	25
20 to 49 employees.....	955	78	3	10	45	163	22	19	147	29	3	36	1	81	11	66	89	39	26	25	29	33
50 to 99 employees.....	476	45	4	15	42	56	20	19	57	12	1	17	2	33	11	31	41	16	17	10	9	18
100 to 249 employees.....	459	52	2	19	72	38	16	29	39	12	1	16	4	27	7	18	25	24	10	12	3	33
250 to 499 employees.....	180	13	—	16	30	9	18	6	6	4	—	8	2	4	4	12	11	15	6	7	2	5
500 to 999 employees.....	107	13	2	9	9	2	12	3	3	5	—	6	—	2	5	6	1	4	9	3	1	—
1,000 to 2,499 employees.....	42	3	—	4	1	—	3	—	3	7	—	2	—	—	—	—	—	6	3	2	1	—
2,500 employees or more.....	11	—	1	4	—	—	—	—	—	2	—	—	—	—	—	—	—	—	2	1	—	—
7 630 Washington.....	7 630	533	—	37	239	1 782	230	109	1 095	174	31	221	26	312	103	567	816	267	385	198	365	140
1 to 4 employees.....	3 130	135	—	13	126	808	104	14	496	64	10	70	10	120	27	191	368	110	158	85	195	26
5 to 9 employees.....	1 382	65	—	8	59	337	40	9	248	28	6	35	4	53	11	124	165	42	58	32	19	—
10 to 19 employees.....	1 065	86	—	3	28	252	29	12	182	40	3	37	6	56	14	108	126	28	52	32	51	23
20 to 49 employees.....	1 025	98	—	6	24	217	35	16	111	26	3	46	3	53	21	88	84	44	55	25	35	—
50 to 99 employees.....	465	67	—	4	13	89	19	21	28	9	3	22	1	18	5	36	42	22	24	10	14	18
100 to 249 employees.....	301	58	—	2	10	61	3	18	19	6	1	11	2	11	12	16	21	13	19	5	5	—
250 to 499 employees.....	98	18	—	1	3	15	—	—	7	—	—	—	—	—	7	2	6	5	8	2	2	—
500 to 999 employees.....	34	5	—	—	—	3	—	2	3	—	—	—	—	—	4	2	2	2	2	1	—	—
1,000 to 2,499 employees.....	20	1	—	—	—	—	—	—	1	—	—	—	—	—	2	—	2	1	5	6	—	—
2,500 employees or more.....	7	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	4	—	—	—
1 619 West Virginia.....	1 619	73	2	7	45	436	30	20	225	70	11	43	5	141	33	118	219	28	23	22	37	31
1 to 4 employees.....	593	19	—	2	13	243	11	1	99	10	2	8	—	28	3	23	77	8	10	6	20	10
5 to 9 employees.....	268	12	—	—	3	70	6	—	43	12	2	7	—	20	4	18	45	3	4	5	6	8
10 to 19 employees.....	270	8	—	1	4	61	3	4	40	10	1	3	—	41	6	22	53	2	1	5	2	3
20 to 49 employees.....	217	14	—	—	5	38	5	8	23	11	2	10	—	25	6	24	30	5	2	1	5	3
50 to 99 employees.....	114	8	—	1	9	18	3	4	8	5	1	8	—	8	2	18	8	5	1	2	3	2
100 to 249 employees.....	91	6	—	3	6	5	1	2	9	9	3	6	3	9	4	10	3	2	4	2	1	—
250 to 499 employees.....	38	5	—	1	5	1	1	1	3	4	—	1	1	5	3	2	2	2	1	1	—	—
500 to 999 employees.....	19	1	—	—	—	—	—	—	—	4	—	—	—	—	2	—	—	—	—	—	—	—
1,000 to 2,499 employees.....	7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2,500 employees or more.....	2	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—
9 157 Wisconsin.....	9 157	869	2	46	165	1 042	235	239	1 377	254	28	368	81	374	218	944	1 690	312	188	197	314	214
1 to 4 employees.....	2 646	169	—	8	57	495	75	22	517	67	10	77	14	136	17	204	445	72	50	53	128	28
5 to 9 employees.....	1 502	126	—	10	21	180	26	12	281	35	9	36	12	79	24	144	323	40	29	31	50	24
10 to 19 employees.....	1 502	154	—	5	27	171	34	29	227	54	4	49	6	67	32	170	350	41	22	31	43	30
20 to 49 employees.....	1 509	156	—	7	26	98	42	40	183	62	4	55	15	67	34	208	272	45	23	20	43	42
50 to 99 employees.....	841	118	—	4	13	54	18	38	81	25	1	—	13	11	28	106	137	36	29	18	28	29
100 to 249 employees.....	684	103	—	8	14	26	21	51	53	7	1	41	16	10	40	71	98	39	13	25	18	29
250 to 499 employees.....	259	30	—	3	5	12	6	21	16	1	—	18	3	3	18	31	31	19	8	15	3	16
500 to 999 employees.....	114	5	—	1	—	3	—	5	8	2	—	3	2	1	4	5	20	16	5	1	3	9
1,000 to 2,499 employees.....	46	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	12	3	4	1	—	—
2,500 employees or more.....	7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

Table 5. Distribution of Establishments by Employment-Size Class and Major Group by State: 1987—Con.

[Major group descriptions are: 20—food and kindred products; 21—tobacco manufactures; 22—textile mill products; 23—apparel and other textile products; 24—lumber and wood products; 25—furniture and fixtures; 26—paper and allied products; 27—printing and publishing; 28—chemicals and allied products; 29—petroleum and coal products; 30—rubber and miscellaneous plastics products; 31—leather and leather products; 32—stone, clay, and glass products; 33—primary metal industries; 34—fabricated metal products; 35—industrial machinery and equipment; 36—electronic and other electric equipment; 37—transportation equipment; 38—instruments and related products; 39—miscellaneous manufacturing industries. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendices. Data in this table may differ slightly from the area reports previously published. These differences are due to corrections which were made for minor errors identified after the area reports were issued.]

Geographic area and employment-size class	All establishments ^{1 2}	Number of establishments by major group																	
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37
Wyoming-----	500	35	-	-	14	101	6	-	104	24	17	3	5	41	7	26	68	8	5
1 to 4 employees-----	251	20	-	-	-	51	6	-	50	6	5	-	3	12	4	12	40	6	1
5 to 9 employees-----	100	3	-	-	9	18	6	-	26	8	1	2	1	9	3	7	14	-	1
10 to 19 employees-----	69	4	-	-	2	14	-	-	12	5	2	-	-	12	-	4	9	1	1
20 to 49 employees-----	43	4	-	-	3	12	-	-	14	1	1	-	-	3	-	2	2	1	-
50 to 99 employees-----	17	1	-	-	-	5	-	-	-	-	4	-	-	5	-	-	-	-	1
100 to 249 employees-----	20	3	-	-	-	1	-	-	2	4	4	1	-	-	-	1	3	-	-
250 to 499 employees-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
500 employees and over-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Note: Data on number of establishments by employment-size class by four-digit SIC industry for States, counties, and selected places are presented in Location of Manufacturing Plants data series. This series is available only on computer tape (see introductory text).

¹Includes establishments with payroll at any time during year.

²Auxiliaries are included in figures shown.

APPENDIX A.

Explanation of Terms

This appendix is in two sections. Section 1 includes items requested of all establishments mailed census of manufactures forms including annual survey of manufactures (ASM) forms. Note that this section also includes several items (number of establishments and companies, value added, classes of products, and specialization and coverage ratios) not included on the report forms but derived from information collected on the forms. Section 2 covers supplementary items requested only from establishments included in the ASM sample. Results of the supplementary ASM inquiries are included in table 3e of this report.

SECTION 1. ITEMS COLLECTED OR DERIVED BASED ON ALL CENSUS OF MANUFACTURES (INCLUDING ASM) REPORT FORMS

Number of establishments and companies—As discussed in the Introduction, a separate report was required for each manufacturing establishment (plant) with one employee or more. An establishment is defined as a single physical location where manufacturing is performed. A company, on the other hand, is defined as a business organization consisting of one establishment or more under common ownership or control.

If the company operated at different physical locations, even if the individual locations were producing the same line of goods, a separate report was requested for each location. If the company operated in two or more distinct lines of manufacturing at the same location, a separate report was requested for each activity.

An establishment not in operation for any portion of the year was requested to return the report form with the proper notation in the "Operational Status" section of the form. In addition, the establishment was requested to report data on any employees, capital expenditures, inventories, or shipments from inventories during the year.

Employment and related items—The report forms requested separate information on production workers for a specific payroll period within each quarter of the year and on other employees as of the payroll period which included the 12th of March.

All employees—This item includes all full-time and part-time employees on the payrolls of operating manufacturing establishments during any part of the pay period which included the 12th of the months specified on the report form. Included are all persons on paid sick leave, paid holidays, and paid vacations during these pay periods. Officers of corporations are included as employees; proprietors and partners of unincorporated firms are excluded. The "all employees" number is the average number of production workers plus the number of other employees in mid-March. The number of production workers is the average for the payroll periods including the 12th of March, May, August, and November.

Production workers—This item includes workers (up through the line-supervisor level) engaged in fabricating, processing, assembling, inspecting, receiving, storing, handling, packing, warehousing, shipping (but not delivering), maintenance, repair, janitorial and guard services, product development, auxiliary production for plant's own use (e.g., power plant), recordkeeping, and other services closely associated with these production operations at the establishment covered by the report. Employees above the working-supervisor level are excluded from this item.

All other employees—This item covers nonproduction employees of the manufacturing establishment including those engaged in factory supervision above the line-supervisor level. It includes sales (including driver salespersons), sales delivery (highway truck drivers and their helpers), advertising, credit, collection, installation and servicing of own products, clerical and routine office function, executive, purchasing, financing, legal, personnel (including cafeteria, medical, etc.), professional, and technical employees. Also included are employees on the payroll of the manufacturing establishment engaged in the construction of major additions or alterations to the plant and utilized as a separate work force.

In addition to reports sent to operating manufacturing establishments, information on employment during the payroll period which included March 12 and annual payrolls also was requested of auxiliary units (e.g., administrative offices, warehouses, and research and development laboratories) of multiestablishment companies. These figures are included in manufacturing totals in chapter 1, table 1, all geographic levels and as a separate category in chapter 1, table 3 and chapter 2, table 5.

Payroll—This item includes the gross earnings of all employees on the payroll of operating manufacturing establishments paid in the calendar year 1987. Respondents were told they could follow the definition of payrolls used for calculating the Federal withholding tax. It includes all

forms of compensation, such as salaries, wages, commissions, dismissal pay, bonuses, vacation and sick leave pay, and compensation in kind, prior to such deductions as employees' Social Security contributions, withholding taxes, group insurance, union dues, and savings bonds. The total includes salaries of officers of corporations; it excludes payments to proprietors or partners of unincorporated concerns. Also excluded are payments to members of Armed Forces and pensioners carried on the active payroll of manufacturing establishments.

The census definition of payrolls is identical to that recommended to all Federal statistical agencies by the Office of Management and Budget. It should be noted that this definition does not include employers' Social Security contributions or other nonpayroll labor costs, such as employees' pension plans, group insurance premiums, and workers' compensation.

The ASM provides estimates of employers' supplemental labor costs, both those required by Federal and State laws and those incurred voluntarily or as part of collective bargaining agreements. (Supplemental labor costs are explained later in this appendix.)

Production-worker hours—This item covers hours worked or paid for at the plant, including actual overtime hours (not straight-time equivalent hours). It excludes hours paid for vacations, holidays, or sick leave.

Cost of materials—This term refers to direct charges actually paid or payable for items consumed or put into production during the year, including freight charges and other direct charges incurred by the establishment in acquiring these materials. It includes the cost of materials or fuel consumed, whether purchased by the individual establishment from other companies, transferred to it from other establishments of the same company, or withdrawn from inventory during the year.

The important components of this cost item are (1) all raw materials, semifinished goods, parts, containers, scrap, and supplies put into production or used as operating supplies and for repair and maintenance during the year, (2) electric energy purchased, (3) fuels consumed for heat, power, or the generation of electricity, (4) work done by others on materials or parts furnished by manufacturing establishments (contract work), and (5) products bought and resold in the same condition. (See discussion of duplication of data below.)

Value of shipments—This item covers the received or receivable net selling values, f.o.b. plant (exclusive of freight and taxes), of all products shipped, both primary and secondary, as well as all miscellaneous receipts, such as receipts for contract work performed for others, installation and repair, sales of scrap, and sales of products bought and resold without further processing. Included are all items made by or for the establishments from materials owned by it, whether sold, transferred to other plants of the same company, or shipped on consignment. The net

selling value of products made in one plant on a contract basis from materials owned by another was reported by the plant providing the materials.

In the case of multiunit companies, the manufacturer was requested to report the value of products transferred to other establishments of the same company at full economic or commercial value, including not only the direct cost of production but also a reasonable proportion of "all other costs" (including company overhead) and profit. (See discussion of duplication of data below.)

Classes of products—To summarize the product information, the separate products were aggregated into classes of products that, in turn, were grouped into all primary products of each industry. The code structure used is a seven-digit number for the individual product, a five-digit number for the class of product, and a four-digit number for the total primary products in an industry. (See Introduction, Industry Classification of Establishments, for application of the coding structure to the assignment of SIC codes for establishments.)

In the 1987 census, the 11,000 products were grouped into approximately 1,500 separate classes on the basis of general similarity of manufacturing processes, types of materials used, and the like. However, the grouping of products was affected by the economic significance of the class and, in some cases, dissimilar products were grouped because the products were not sufficiently significant to warrant separate classes.

Duplication in cost of materials and value of shipments—The aggregate of the cost of materials and value of shipments figures for industry groups and for all manufacturing industries includes large amounts of duplication since the products of some industries are used as materials by others. This duplication results, in part, from the addition of related industries representing successive stages in the production of a finished manufactured product. Examples are the addition of flour mills to bakeries in the food group and the addition of pulp mills to paper mills in the paper and allied products group of industries. Estimates of the overall extent of this duplication indicate that the value of manufactured products exclusive of such duplication (the value of finished manufactures) tends to approximate two-thirds of the total value of products reported in the annual survey.

Duplication of products within individual industries is significant within a number of industry groups, e.g., machinery and transportation industries. These industries frequently include complete machinery and their parts. In this case, the parts made for original equipment are materials consumed for assembly plants in the same industry.

Even when no significant amount of duplication is involved, value of shipments figures are deficient as measures of the relative economic importance of individual manufacturing industries or geographic areas because of the wide variation in ratio of materials, labor, and other processing costs of value of shipments, both among industries and within the same industry.

Before 1962, cost of materials and value of shipments were not published for some industries which included considerable duplication. Since then, these data have been published for all industries at the United States level and beginning in 1964, for all geographic levels.

Value added by manufacture—This measure of manufacturing activity is derived by subtracting the cost of materials, supplies, containers, fuel, purchased electricity, and contract work from the value of shipments (products manufactured plus receipts for services rendered). The result of this calculation is adjusted by the addition of value added by merchandising operations (i.e., the difference between the sales value and the cost of merchandise sold without further manufacture, processing, or assembly) plus the net change in finished goods and work-in-process between the beginning- and end-of-year inventories.

“Value added” avoids the duplication in the figure for value of shipments that results from the use of products of some establishments as materials by others. Value added is considered to be the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

New and used capital expenditures—For establishments in operation and any known plants under construction, manufacturers were asked to report their new expenditures for (1) permanent additions and major alterations to manufacturing establishments, and (2) machinery and equipment used for replacement and additions to plant capacity if they were of the type for which depreciation accounts were ordinarily maintained.

The totals for new expenditures include expenditures leased from nonmanufacturing concerns through capital leases. New facilities owned by the Federal Government but operated under contract by private companies, and plant and equipment furnished to the manufacturer by communities and nonprofit organizations are excluded. Also excluded are expenditures for used plant and equipment (although reported in the census), expenditures for land, and cost of maintenance and repairs charged as current operating expenses.

Manufacturers also were requested to report the value of all used buildings and equipment purchased during the year at the purchase price. For any equipment or structure transferred for the use of the reporting establishment by the parent company or one of its subsidiaries, the value at which it was transferred to the establishment was to be reported. Furthermore, if the establishment changed ownership during the year, the cost of the fixed assets (building and equipment) was to be reported under used capital expenditures.

Total expenditures for used plant and equipment is a universe figure; it is collected on all census forms. However, the breakdown of this figure between expenditures for used buildings and other structures and expenditures for used machinery and equipment is collected only on the

ASM form. The data for total new capital expenditures, new building expenditures, and new machinery expenditures, as well as the data for total used expenditures, are shown in table 3d.

End-of-year inventories—Respondents were asked to report their 1986 and 1987 end-of-year inventories at cost or market. Effective with the 1982 Economic Censuses, this change to a uniform instruction for reporting inventories was introduced for all sector reports. Prior to 1982, respondents were permitted to value inventories using any generally accepted accounting method (FIFO, LIFO, market, to name a few). In 1982, LIFO users were asked to first report inventory values prior to the LIFO adjustment and then to report the LIFO reserve and the LIFO value after adjustment for the reserve.

Because of this change in reporting instructions, the 1982 through 1987 data for inventories and value added by manufacture included in the tables of this report are not comparable to the prior-year data shown in chapter 1, table 1, of this report and in historical census of manufactures and annual survey of manufactures publications.

In using inventory data by stage of fabrication for “all industries” and at the two-digit industry level, it should be noted that an item treated as a finished product by an establishment in one industry may be reported as a raw material by another establishment in a different industry. For example, the finished-product inventories of a steel mill would be reported as raw materials by a stamping plant. Such differences are present in the inventory figures by stage of fabrication shown for individual industries, industry groups, and “all manufacturing”, which are aggregates of figures reported by establishments in specified industries.

Specialization and coverage ratios—These items are not collected on the report forms but are derived from the data shown in table 5b of the industry reports. An establishment is classified in a particular industry if its shipments of primary products of that industry exceed in value its shipments of the products of any other single industry.

As noted in the introduction, an establishment’s shipments include those products assigned to an industry (primary products), those considered primary to other industries (secondary products), and receipts for miscellaneous activities (merchandising, contract work, resales, etc.). Specialization and coverage ratios have been developed to measure the relationship of primary product shipments to the data on shipments for the industry. These are shown in chapter 1, table 3.

Specialization ratio represents the ratio of primary product shipments to total product shipments (primary and secondary, excluding miscellaneous receipts) for the establishments classified in the industry.

Coverage ratio represents the ratio of primary products shipped by the establishments classified in the industry to the total shipments of such products that are shipped by all manufacturing establishments wherever classified.

SECTION 2. ITEMS COLLECTED ONLY ON ASM REPORT FORMS

The following items were collected only from establishments included in the ASM sample:

1. **Supplemental labor costs**—Supplemental labor costs are divided into legally required expenditures and payments for voluntary programs. The legally required portion consists primarily of Federal old age and survivors' insurance, unemployment compensation, and workers' compensation. Payments for voluntary programs include all programs not specifically required by legislation whether they were employer initiated or the result of collective bargaining. They include the employer portion of such plans as insurance premiums, premiums for supplemental accident and sickness insurance, pension plans, supplemental unemployment compensation, welfare plans, stock purchase plans on which the employer payment is not subject to withholding tax, and deferred profit-sharing plans. They exclude such items as company-operated cafeterias, in-plant medical services, free parking lots, discounts on employee purchases, and uniforms and work clothing for employees. While the excluded items do benefit employees and all or part of their cost generally is similar to the items covered in the ASM labor costs statistics, accounting records generally do not provide reliable figures on net employee benefits of these types.
2. **Retirements of depreciable assets**—Included in this item is the gross value of assets sold, retired, scrapped, destroyed, etc., during 1987. When a complete operation or establishment changed ownership, the respondent was instructed to report the value of the assets sold at the original cost as recorded in the books of the seller. The respondent also was requested to report retirements of equipment or structures owned by a parent company that the establishment was using as if it were a tenant.
3. **Depreciation charges for fixed assets**—This item includes depreciation and amortization charged during the year against assets. Depreciation charged against fixed assets acquired since the beginning of the year and against assets sold or retired during the year are components of this category. Respondents were requested to make certain that they did not report accumulated depreciation.
4. **Rental payments**—Total rental payments is collected on all census forms. However, the breakdown between rental payments for buildings and other structures and rental payments for machinery and equipment is collected only on the ASM forms. This item includes rental payments for the use of all items for which depreciation reserves would be maintained if they were owned by the establishment, e.g., structures and buildings, and production,

office, and transportation equipment. Excluded are royalties and other payments for the use of intangibles and depletable assets, and land rents where separable.

When an establishment of a multiestablishment company was charged rent by another part of the same company for the use of assets owned by the company, it was instructed to exclude that cost from rental payments. However, the book value (original cost) of these company-owned assets was to be reported as assets of the establishment at the end of the year.

If there were assets at an establishment rented from another company and the rents were paid centrally by the head office of the establishment, the company was instructed to report these rental payments as if they were paid directly by the establishment.

5. **Depreciable assets**—Total value of gross depreciable assets is collected on all census forms. However, the detail for depreciable assets is collected only on the ASM forms. The data encompass all fixed depreciable assets on the books of establishments at the beginning and end of the year. The values shown (book value) represent the actual cost of assets at the time they were acquired, including all costs incurred in making the assets usable (such as transportation and installation). Included are all buildings, structures, machinery, and equipment (production, office, and transportation equipment) for which depreciation reserves are maintained. Excluded are nondepreciable capital assets, including inventories and intangible assets, such as timber and mineral rights.

The definition of fixed depreciable assets is consistent with the definition of capital expenditures. For example, expenditures include actual capital outlays during the year, rather than the final value of equipment put in place and buildings completed during the year. Accordingly, the value of assets at the end of the year includes the value of construction in progress. In addition, respondents were requested to make certain that assets at the beginning of the year plus new and used capital expenditures, less retirements, equalled assets at the end of the year.

6. **New and used capital expenditures**—The data for total new capital expenditures, new building expenditures, new machinery expenditures, and total used capital expenditures are collected on all census forms. However, the breakdown between expenditures for used buildings and other structures and expenditures for used machinery and equipment is collected only on the ASM form. (See further explanation on capital expenditures in section 1.)

7. **Quantity of electric energy consumed for heat and power**—Data on the cost of purchased electric energy were collected on all census forms. However, data on the quantity of purchased electric energy were collected only on the ASM forms. In addition, information was collected on the quantity of electric energy generated by the establishment and the quantity of electric energy sold or transferred to other plants of the same company.

8. **Breakdown of new capital expenditures for machinery and equipment**—ASM establishments were requested to separate their capital expenditures for new machinery and equipment into (1) automobiles, trucks, etc., for highway use, (2) computers and peripheral data processing equipment, and (3) all other.

The category “automobiles, trucks, etc., for highway use” is intended to measure expenditures for vehicles designed for highway use that were acquired through a purchase or lease-purchase agreement. Vehicles normally operating off public highways (vehicles specifically designed to transport materials, property, or equipment on mining, construction, logging, and petroleum development projects) are excluded from this item.

9. **Foreign content of cost of materials**—Establishments included in the ASM sample panel were requested to provide information on foreign-made materials purchased or transferred from foreign sources. This includes materials acquired from a central warehouse or other domestic establishment of the same company but made in an operation outside of the 50 States, District of Columbia, Puerto Rico, or U.S. territories.

10. **Cost of purchased services**—ASM establishments were requested to provide information on the cost of purchased services for the repair of buildings and other structures, the repair of machinery, and communication services. Included in the cost of purchased services for the repair of buildings and machinery are payments made for all maintenance and repair work on buildings and equipment, such as painting, roof repairs, replacing parts, and overhauling equipment. Such payments made to other establishments of the same company and for repair and maintenance of any leased property also are included. Extensive repairs or reconstruction that were capitalized are considered capital expenditures for used buildings and machinery and are, therefore, excluded from this item. Repair and maintenance costs provided by an owner as part of a rental contract or incurred directly by an establishment in using its own work force also are excluded.

Three basic approaches were utilized to produce these statistics.

1. For items 1 through 6, data were estimated (imputed) for all non-ASM establishments using the available data in the establishment record and industry-based parameters. The statistics were then generated by simply tabulating all census records including the imputed value for non-ASM establishments and the unweighted value for ASM establishments. Separate imputation rates were developed and are shown in the table. For quantity of purchased electricity for heat and power (item 7), a similar procedure was used; however, the imputation parameters were geographically-based instead of industry-based. For quantities of generated less sold electricity, no imputation was performed for non-ASM establishments. The estimates for these items are simply tabulations of unweighted ASM values.

Since the published statistics for these items were developed from the complete census universe and not just the ASM establishments, there are no sampling variances associated with these statistics. However, there is an unknown level of bias for each of the items due to the imputation of the non-ASM establishments. This bias is felt to be small due to the strong correlation between the items being imputed and the collected items that were used to generate the impute values.

2. For items 8 and 9, the estimates were developed using a ratio estimation methodology. For item 8, an estimate of the breakout of new capital expenditures for machinery and equipment into the three categories was made from ASM establishments reporting these categories. The estimated proportions were then applied to the corresponding Census value for new capital expenditures for machinery and equipment to produce the estimates.

The estimates for item 9, foreign content of cost of materials, were developed in a similar manner based on costs of parts, supplies, and components (item 5a) as the control total for the three categories.

For items 8 and 9, an adjustment ratio of the following form was computed.

$$R_j = \frac{NM_c}{TME_{asm}}$$

where:

NM_c = the census value of new capital expenditures for machinery and equipment

TME_{asm} = the weighted ASM value of new capital expenditures for machinery and equipment from reporters of the detailed breakout data

3. For item 10, cost of purchased services, the estimates were made by simply tabulating weighted data for all the ASM records that reported the item.

A response coverage ratio (a measure of the extent to which respondents reported for each item) is shown in table 3e for the three types of services. It is derived for each item by calculating the ratio of

the weighted employment (establishment data multiplied by sample weight, see appendix B) for those ASM establishments that reported the specific inquiry to the weighted total employment for all ASM establishments classified in the industry.

APPENDIX B.

Annual Survey of Manufactures (ASM) Sampling and Estimating Methodologies

DESCRIPTION OF SURVEY SAMPLE

The Annual Survey of Manufactures (ASM) contains two components. The mail portion of the survey is a probability sample of about 56,000 manufacturing establishments selected from a total of about 220,000 establishments. These 220,000 establishments represent all manufacturing establishments of multiunit companies and all single establishment companies mailed schedules in the 1982 Census of Manufactures. This mail portion is supplemented annually by a Social Security Administration list of new manufacturing establishments opened after 1982 and a list of new multiunit manufacturing establishments identified from the Census Bureau's Company Organization Survey.

The 1984 through 1988 ASM sample differs slightly from the previous sample. For the current panel, all establishments of companies with 1982 shipments in manufacturing in excess of \$500 million were included in the survey panel with certainty. There are approximately 500 such companies collectively accounting for approximately 18,000 establishments. For the remaining portion of the mail survey, the establishment was defined as the sampling unit. For this portion, all establishments with 250 employees or more and establishments with a very large value of shipments also were included in the survey panel with certainty. A total of 12,100 establishments were selected from this portion of the universe with certainty. Therefore, of the 56,000 manufacturing establishments included in the ASM panel, approximately 31,000 are selected with certainty. These certainty establishments collectively account for approximately 80 percent of the total value of shipments in the 1982 census.

Smaller establishments in the remaining portion of the mail survey were sampled with probabilities ranging from 0.999 to 0.005 in accordance with mathematical theory for optimum allocation of a sample. The probabilities of selection assigned to the smaller establishments were proportional to measures of size determined for each establishment. The measures of size depend directly upon each establishment's 1982 product class values and the historic variability of the year-to-year shipments of each product class. Product classes displaying more volatile year-to-year change in shipments at the establishment level were sampled at a heavier rate.

This method of assigning measures of size was used in order to maximize the precision (that is, minimize the variance of estimates of the year-to-year change) in the value of product class shipments. Implicitly, it also gave weight differences in employment, value added, and other

general statistics, since these are highly correlated with value of shipments. Individual sample selection probabilities were obtained by multiplying each establishment's final measure of size by an overall sampling fraction coefficient calculated to yield a total expected sample size.

The sample selection procedure gave each establishment in the sampling frame an independent chance of selection. This method of independent selection permits the rotation of small establishments out of a given sample panel without introducing a bias into the survey estimates.

The nonmail portion of the survey includes all single-establishment companies that were tabulated as administrative records in the 1982 Census of Manufactures. Although this portion contained approximately 130,000 establishments, it accounted for less than 2 percent of the estimate for total value of shipments at the total manufacturing level. This portion was not sampled; rather, the data for every establishment in this group were estimated based on selected information obtained annually from the administrative records of the Internal Revenue Service and the Social Security Administration. This administrative-record information, which includes payroll, total employment, industry classification, and physical location of the establishment, was obtained under conditions which safeguard the confidentiality of both tax and census records. Estimates of data other than payroll and employment for these small establishments were developed from industry averages.

The corresponding estimates for the mail and nonmail establishments were added together, along with the base-year differences, as defined in the Description of Estimating Procedure section, to produce the figures shown in this publication.

DESCRIPTION OF ESTIMATING PROCEDURES

Most of the ASM estimates for the years 1983-1986 were computed using a difference estimation procedure. For each item, a base-year difference was developed. This base-year difference is equal to the difference between the 1982 census published number for an item total and the linear ASM estimate of the total for 1982. The ASM linear estimate was obtained by multiplying each sample establishment's data by its sample weight (the reciprocal of its probability of selection) and summing the weighted values.

These base-year differences were then added to the corresponding current-year linear estimates, which include the sum of the estimates for the mail and nonmail establishments, to produce the estimates for the years 1983-1986. Estimates developed by this procedure usually are far more reliable than comparable linear estimates developed from the current sample data alone.

The 1987 sample estimates for the purchased service items, shown in table 3e, are strictly ASM linear estimates, however, developed only from ASM establishments that reported the specific item.

The remaining estimates in table 3e, showing the breakdown of expenditures for new machinery and equipment and costs of parts (separated into purchases from foreign sources and purchases from domestic sources), were computed as ratio estimates. To do this, linear estimates of the new machinery detail items were developed from the ASM establishments and were ratio adjusted to the corresponding census total for new machinery. In a similar fashion, the ASM linear estimates of the detailed purchased materials items were ratio adjusted to the corresponding census total for cost of parts.

QUALIFICATIONS OF THE DATA

The estimates developed from the sample are apt to differ somewhat from the results of a survey covering all companies in the sampled lists but otherwise conducted under essentially the same conditions as the actual sample survey. The estimates of the magnitude of the sampling errors (the differences between the estimates obtained and the results theoretically obtained from a comparable, complete-coverage survey) are provided by the standard errors of the estimates.

The particular sample selected for the ASM is one of a large number of similar probability samples that, by chance, might have been selected under the same specifications. Each of the possible samples would yield somewhat different sets of results, and the standard errors are measures of the variation of all the possible sample estimates around the theoretical, comparable, complete-coverage values.

Estimates of the standard errors have been computed from the sample data for selected statistics in this report. They are presented in the form of relative standard errors (the standard errors divided by the estimated values to which they refer).

In conjunction with its associated estimate, the relative standard error may be used to define confidence intervals (ranges that would include the comparable, complete-coverage value for specified percentages of all the possible samples).

The complete coverage value would be included in the range:

1. From one standard error below to one standard error above the derived estimate for about two-thirds of all possible samples.
2. From two standard errors below to two standard errors above the derived estimate for about 19 of 20 of all possible samples.
3. From three standard errors below to three standard errors above the derived estimate for nearly all samples.

An inference that the comparable, complete-survey result would be within the indicated ranges would be correct in approximately the relative frequencies shown. Those proportions, therefore, may be interpreted as defining the confidence that the estimates from a particular sample would differ from complete-coverage results by as much as one, two, or three standard errors, respectively.

For example, suppose an estimated total is shown as 50,000 with an associated relative standard error of 2 percent, that is, a standard error of 1,000 (2 percent of 50,000). There is approximately 67 percent confidence that the interval 49,000 to 51,000 includes the complete-coverage total, about 95 percent confidence that the interval 48,000 to 52,000 includes the complete-coverage total and almost certain confidence that the interval 47,000 to 53,000 includes the complete coverage total.

In addition to the sample errors, the estimates are subject to various response and operational errors: errors of collection, reporting, coding, transcription, imputation for nonresponse, etc. These operational errors also would occur if a complete canvass were to be conducted under the same conditions as the survey. Explicit measures of their effects generally are not available. However, it is believed that most of the important operational errors were detected and corrected in the course of the Bureau's review of the data for reasonableness and consistency. The small operational errors usually remain. To some extent, they are compensating in the aggregated totals shown. When important operational errors were detected too late to correct the estimates, the data were suppressed or were specifically qualified in the tables.

As derived, the estimated standard errors included part of the effect of the operational errors. The total errors, which depend upon the joint effect of the sampling and operational errors, are usually of the order of size indicated by the standard error, or only moderately higher. However, for particular estimates, the total error may considerably exceed the standard errors shown.

The concept of complete coverage under the conditions prevailing for the ASM is not identical to the complete coverage of the census of manufactures, as the censuses have been conducted. Nearly all types of operational errors that affect the ASM also occur in the censuses. The ASM and the censuses, are conducted under quite different conditions, and operational errors can be better controlled in the ASM than in the censuses. As a result, for many of the census figures, the errors are of the same order of size as the total errors of the corresponding annual survey estimates. The differences between the census and ASM operating conditions also disturb, to some degree, the comparability of the ASM and census data.

Any figures shown in the tables in this publication having an associated standard error exceeding 15 percent may be of limited reliability. However, the figure may be combined with higher-level totals, creating a broader aggregate, which then may be of acceptable reliability.

APPENDIX C.

Industry Descriptions

20 FOOD AND KINDRED PRODUCTS

This major group includes establishments manufacturing or processing foods and beverages for human consumption, and certain related products, such as manufactured ice, chewing gum, vegetable and animal fats and oils, and prepared feeds for animals and fowls. Products described as dietetic are classified in the same manner as nondietetic products (e.g., as candy, canned fruits, cookies). Chemical sweeteners are classified in major group 28.

201 MEAT PRODUCTS

2011 Meat Packing Plants

Establishments primarily engaged in the slaughtering, for their own account or on a contract basis for the trade, of cattle, hogs, sheep, lambs, and calves for meat to be sold or to be used on the same premises in canning, cooking, curing, and freezing, and in making sausage, lard, and other products. Also included in this industry are establishments primarily engaged in slaughtering horses for human consumption. Establishments primarily engaged in slaughtering, dressing, and packing poultry, rabbits, and other small game are classified in industry 2015; and those primarily engaged in slaughtering and processing animals not for human consumption are classified in industry 2048. Establishments primarily engaged in manufacturing sausages and meat specialties from purchased meats are classified in industry 2013; and establishments primarily engaged in canning meat for baby food are classified in industry 2032.

2013 Sausages and Other Prepared Meat Products

Establishments primarily engaged in manufacturing sausages, cured meats, smoked meats, canned meats, frozen meats, and other prepared meats and meat specialties, from purchased carcasses and other materials. Prepared meat plants operated by packing houses as separate establishments are also included in this industry. Establishments primarily engaged in canning or otherwise processing poultry, rabbits, and other small game are classified in industry 2015. Establishments primarily engaged in canning meat for baby food are classified in industry 2032. Establishments primarily engaged in the cutting up and resale of purchased fresh carcasses, for the trade, (including boxed beef) are classified in Wholesale Trade, industry 5147.

2015 Poultry Slaughtering and Processing

Establishments primarily engaged in slaughtering, dressing, packing, freezing, and canning poultry, rabbits, and other small game, or in manufacturing products from such meats, for their own account or on a contract basis for the trade. This industry also includes the drying, freezing, and breaking of eggs. Establishments primarily engaged in cleaning, oil treating, packing, and grading of eggs are classified in Wholesale Trade, industry 5144; and those engaged in the cutting up and resale of purchased fresh carcasses are classified in Wholesale and Retail Trade.

202 DAIRY PRODUCTS

This industry group includes establishments primarily engaged in: (1) manufacturing creamery butter; natural, processed, and imitation cheese; dry, condensed, and evaporated milk; ice cream and frozen dairy desserts; and special dairy products, such as yogurt and malted milk; and (2) processing (pasteurizing, homogenizing, vitaminizing, bottling) fluid milk and cream for wholesale or retail distribution. Independently operated milk receiving stations primarily engaged in the assembly and reshipment of bulk milk for use in manufacturing or processing plants are classified in industry 5143.

2021 Creamery Butter

Establishments primarily engaged in manufacturing creamery butter.

2022 Natural, Processed, and Imitation Cheese

Establishments primarily engaged in manufacturing natural cheese (except cottage cheese), processed cheese, cheese foods, cheese spreads, and cheese analogs (imitations and substitutes). These establishments also produce byproducts, such as raw liquid whey. Establishments primarily engaged in manufacturing cottage cheese are classified in industry 2026, and those manufacturing cheese-based salad dressings are classified in industry 2035.

2023 Dry, Condensed, and Evaporated Dairy Products

Establishments primarily engaged in manufacturing dry, condensed, and evaporated dairy products. Included in this industry are establishments primarily engaged in manufacturing mixes for the preparation of frozen ice cream and ice milk and dairy and nondairy base cream substitutes and dietary supplements.

2024 Ice Cream and Frozen Desserts

Establishments primarily engaged in manufacturing ice cream and other frozen desserts. Establishments primarily engaged in manufacturing frozen bakery products, such as cakes and pies, are classified in industry 2053.

2026 Fluid Milk

Establishments primarily engaged in processing (e.g., pasteurizing, homogenizing, vitaminizing, bottling) fluid milk and cream, and related products, including cottage cheese, yogurt (except frozen), and other fermented milk. Establishments primarily engaged in manufacturing dry mix whipped toppings are classified in industry 2023; those producing frozen whipped toppings are classified in industry 2038; and those producing frozen yogurt are classified in industry 2024.

203 CANNED, FROZEN, AND PRESERVED FRUITS, VEGETABLES, AND FOOD SPECIALTIES

The canned products of this industry group are distinguished by their processing rather than by the container. The products may be shipped in bulk or in individual cans, bottles, retort pouch packages, or other containers.

2032 Canned Specialties

Establishments primarily engaged in canning specialty products, such as baby foods, nationality specialty foods, and soups, except seafood. Establishments primarily engaged in canning seafoods are classified in industry 2091.

2033 Canned Fruits, Vegetables, Preserves, Jams, and Jellies

Establishments primarily engaged in canning fruits, vegetables, and fruit and vegetable juices; and in manufacturing catsup and similar tomato sauces, or natural and imitation preserves, jams, and jellies. Establishments primarily engaged in canning seafoods are classified in industry 2091; and those manufacturing canned specialties, such as baby foods and soups, except seafood, are classified in industry 2032.

2034 Dried and Dehydrated Fruits, Vegetables, and Soup Mixes

Establishments primarily engaged in sun drying or artificially dehydrating fruits and vegetables, or in manufacturing packaged soup mixes from dehydrated ingredients. Establishments primarily engaged in the grading and marketing of farm dried fruits, such as prunes and raisins, are classified in Wholesale Trade, industry 5149.

2035 Pickled Fruits and Vegetables, Vegetable Sauces and Seasonings, and Salad Dressings

Establishments primarily engaged in pickling and brining fruits and vegetables, and in manufacturing salad dressings, vegetable relishes, sauces, and seasonings. Establishments primarily engaged in manufacturing catsup and

similar tomato sauces are classified in industry 2033, and those packing purchased pickles and olives are classified in Wholesale or Retail Trade. Establishments primarily engaged in manufacturing dry salad dressing and dry sauce mixes are classified in industry 2099.

2037 Frozen Fruits, Fruit Juices, and Vegetables

Establishments primarily engaged in freezing fruits, fruit juices, and vegetables. These establishments also produce important byproducts such as fresh or dried citrus pulp.

2038 Frozen Specialties, Not Elsewhere Classified

Establishments primarily engaged in manufacturing frozen food specialties, not elsewhere classified, such as frozen dinners and frozen pizza. The manufacture of some important frozen foods and specialties is classified elsewhere. For example, establishments primarily engaged in manufacturing frozen dairy specialties are classified in industry group 202, those manufacturing frozen bakery products are classified in industry group 205, those manufacturing frozen fruits and vegetables are classified in industry 2037, and those manufacturing frozen fish and seafood specialties are classified in industry 2092.

204 GRAIN MILL PRODUCTS

2041 Flour and Other Grain Mill Products

Establishments primarily engaged in milling flour or meal from grain, except rice. The products of flour mills may be sold plain or in the form of prepared mixes or doughs for specific purposes. Establishments primarily engaged in manufacturing prepared flour mixes or doughs from purchased ingredients are classified in industry 2045, and those milling rice are classified in industry 2044.

2043 Cereal Breakfast Foods

Establishments primarily engaged in manufacturing cereal breakfast foods and related preparations, except breakfast bars. Establishments primarily engaged in manufacturing granola bars and other types of breakfast bars are classified in industry 2064.

2044 Rice Milling

Establishments primarily engaged in cleaning and polishing rice, and in manufacturing rice flour or meal. Other important products of this industry include brown rice, milled rice (including polished rice), rice polish, and rice bran.

2045 Prepared Flour Mixes and Doughs

Establishments primarily engaged in preparing flour mixes or doughs from purchased flour. Establishments primarily engaged in milling flour from grain and producing mixes or doughs are classified in industry 2041.

2046 Wet Corn Milling

Establishments primarily engaged in milling corn or sorghum grain (milo) by the wet process, and producing starch, syrup, oil, sugar, and byproducts, such as gluten feed and meal. Also included in this industry are establishments primarily engaged in manufacturing starch from other vegetable sources (e.g., potatoes, wheat). Establishments primarily engaged in manufacturing table syrups from corn syrup and other ingredients, and those manufacturing starch base dessert powders, are classified in industry 2099.

2047 Dog and Cat Food

Establishments primarily engaged in manufacturing dog and cat food from cereal, meat, and other ingredients. These preparations may be canned, frozen, or dry. Establishments primarily engaged in manufacturing feed for animals other than dogs and cats are classified in industry 2048.

2048 Prepared Feeds and Feed Ingredients for Animals and Fowls, Except Dogs and Cats

Establishments primarily engaged in manufacturing prepared feeds and feed ingredients and adjuncts for animals and fowls, except dogs and cats. Included in this industry are poultry and livestock feed and feed ingredients, such as alfalfa meal, feed supplements, and feed concentrates and feed premixes. Also included are establishments primarily engaged in slaughtering animals for animal feed. Establishments primarily engaged in slaughtering animals for human consumption are classified in industry group 201. Establishments primarily engaged in manufacturing dog and cat foods are classified in industry 2047.

205 BAKERY PRODUCTS

2051 Bread and Other Bakery Products, Except Cookies and Crackers

Establishments primarily engaged in manufacturing fresh or frozen bread and bread-type rolls and fresh cakes, pies, pastries and other similar “perishable” bakery products. Establishments primarily engaged in producing “dry” bakery products, such as biscuits, crackers, and cookies, are classified in industry 2052. Establishments primarily engaged in manufacturing frozen bakery products, except bread

and bread-type rolls, are classified in industry 2053. Establishments producing bakery products primarily for direct sale on the premises to household consumers are classified in Retail Trade, industry 5461.

2052 Cookies and Crackers

Establishments primarily engaged in manufacturing fresh cookies, crackers, pretzels, and similar “dry” bakery products. Establishments primarily engaged in producing other fresh bakery products are classified in industry 2051.

2053 Frozen Bakery Products, Except Bread

Establishments primarily engaged in manufacturing frozen bakery products, except bread and bread-type rolls. Establishments primarily engaged in manufacturing frozen bread and bread-type rolls are classified in industry 2051.

206 SUGAR AND CONFECTIONERY PRODUCTS

2061 Cane Sugar, Except Refining

Establishments primarily engaged in manufacturing raw sugar, syrup, or finished (granulated or clarified) cane sugar from sugarcane. Establishments primarily engaged in refining sugar from purchased raw cane sugar or sugar syrup are classified in industry 2062.

2062 Cane Sugar Refining

Establishments primarily engaged in refining purchased raw cane sugar and sugar syrup.

2063 Beet Sugar

Establishments primarily engaged in manufacturing sugar from sugar beets.

2064 Candy and Other Confectionery Products

Establishments primarily engaged in manufacturing candy, including chocolate candy, other confections, and related products. Establishments primarily engaged in manufacturing solid chocolate bars from cacao beans are classified in industry 2066, those manufacturing chewing gum are classified in industry 2067, and those primarily engaged in roasting and salting nuts are classified in industry 2068. Establishments primarily engaged in manufacturing confectionery for direct sale on the premises to household consumers are classified in Retail Trade, industry 5441.

2066 Chocolate and Cocoa Products

Establishments primarily engaged in shelling, roasting, and grinding cacao beans for the purpose of making chocolate liquor, from which cocoa powder and cocoa butter are derived, and in the further manufacture of solid chocolate bars, chocolate coatings, and other chocolate

and cocoa products. Also included is the manufacture of similar products, except candy, from purchased chocolate or cocoa. Establishments primarily engaged in manufacturing candy from purchased cocoa products are classified in industry 2064.

2067 Chewing Gum

Establishments primarily engaged in manufacturing chewing gum or chewing gum base.

2068 Salted and Roasted Nuts and Seeds

Establishments primarily engaged in manufacturing salted, roasted, dried, cooked, or canned nuts or in processing grains or seeds in a similar manner for snack purposes. Establishments primarily engaged in manufacturing confectionery-coated nuts are classified in industry 2064, and those manufacturing peanut butter are classified in industry 2099.

207 FATS AND OILS

2074 Cottonseed Oil Mills

Establishments primarily engaged in manufacturing cottonseed oil, cake, meal, and linters, or in processing purchased cottonseed oil other than into edible cooking oils. Establishments primarily engaged in refining cottonseed oil into edible cooking oils are classified in industry 2079.

2075 Soybean Oil Mills

Establishments primarily engaged in manufacturing soybean oil, cake, and meal, and soybean protein isolates and concentrates, or in processing purchased soybean oil other than into edible cooking oils. Establishments primarily engaged in refining soybean oil into edible cooking oils are classified in industry 2079.

2076 Vegetable Oil Mills, Except Corn, Cottonseed, and Soybean

Establishments primarily engaged in manufacturing vegetable oils, cake and meal, except corn, cottonseed, and soybean, or in processing similar purchased oils other than into edible cooking oils. Establishments primarily engaged in manufacturing corn oil and its byproducts are classified in industry 2046, those which are refining vegetable oils into edible cooking oils are classified in industry 2079, and those refining these oils for medicinal purposes are classified in industry 2833.

2077 Animal and Marine Fats and Oils

Establishments primarily engaged in manufacturing animal oils, including fish oil and other marine animal oils, and fish and animal meal; and those rendering inedible stearin,

grease, and tallow from animal fat, bones, and meat scraps. Establishments primarily engaged in manufacturing lard and edible tallow and stearin are classified in industry group 201; those refining marine animal oils for medicinal purposes are classified in industry 2833; and those manufacturing fatty acids are classified in industry 2899.

2079 Shortening, Table Oils, Margarine, and Other Edible Fats and Oils, Not Elsewhere Classified

Establishments primarily engaged in manufacturing shortening, table oils, margarine, and other edible fats and oils, not elsewhere classified. Establishments primarily engaged in producing corn oil are classified in industry 2046.

208 BEVERAGES

2082 Malt Beverages

Establishments primarily engaged in manufacturing malt beverages. Establishments primarily engaged in bottling purchased malt beverages are classified in industry 5181.

2083 Malt

Establishments primarily engaged in manufacturing malt or malt byproducts from barley or other grains.

2084 Wines, Brandy, and Brandy Spirits

Establishments primarily engaged in manufacturing wines, brandy, and brandy spirits. This industry also includes bonded wine cellars which are engaged in blending wines. Establishments primarily bottling purchased wines, brandy, and brandy spirits, but which do not manufacture wines and brandy, are classified in Wholesale Trade, industry 5182.

2085 Distilled and Blended Liquors

Establishments primarily engaged in manufacturing alcoholic liquors by distillation, and in manufacturing cordials and alcoholic cocktails by blending processes or by mixing liquors and other ingredients. Establishments primarily engaged in manufacturing industrial alcohol are classified in industry 2869, and those only bottling purchased liquors are classified in Wholesale Trade, industry 5182.

2086 Bottled and Canned Soft Drinks and Carbonated Waters

Establishments primarily engaged in manufacturing soft drinks and carbonated waters. Establishments primarily engaged in manufacturing fruit and vegetable juices are classified in industry group 203; those manufacturing fruit syrups for flavoring are classified in industry 2087; and

those manufacturing nonalcoholic cider are classified in industry 2099. Establishments primarily engaged in bottling natural spring waters are classified in Wholesale Trade, industry 5149.

2087 Flavoring Extracts and Flavoring Syrups, Not Elsewhere Classified

Establishments primarily engaged in manufacturing flavoring extracts, syrups, powders, and related products, not elsewhere classified, for soda fountain use or for the manufacture of soft drinks, and colors for bakers' and confectioners' use. Establishments primarily engaged in manufacturing chocolate syrup are classified in industry 2066.

209 MISCELLANEOUS FOOD PREPARATIONS AND KINDRED PRODUCTS

2091 Canned and Cured Fish and Seafoods

Establishments primarily engaged in cooking and canning fish, shrimp, oysters, clams, crabs, and other seafoods, including soups; and those engaged in smoking, salting, drying, or otherwise curing fish and other seafoods for the trade. Establishments primarily engaged in shucking and packing fresh oysters in nonsealed containers, or in freezing or preparing fresh fish, are classified in industry 2092.

2092 Prepared Fresh or Frozen Fish and Seafoods

Establishments primarily engaged in preparing fresh and raw or cooked frozen fish and other seafoods and seafood preparations, such as soups, stews, chowders, fishcakes, crabcakes, and shrimp cakes. Prepared fresh fish are eviscerated or processed by removal of heads, fins, or scales. This industry also includes establishments primarily engaged in the shucking and packing of fresh oysters in nonsealed containers.

2095 Roasted Coffee

Establishments primarily engaged in roasting coffee, and in manufacturing coffee concentrates and extracts in powdered, liquid, or frozen form, including freeze-dried. Coffee roasting by wholesale grocers is classified in Wholesale Trade, industry 5149.

2096 Potato Chips, Corn Chips, and Similar Snacks

Establishments primarily engaged in manufacturing potato chips, corn chips, and similar snacks. Establishments primarily engaged in manufacturing pretzels and crackers are classified in industry 2052; those manufacturing candy covered popcorn are classified in industry 2064; those

manufacturing salted, roasted, cooked or canned nuts and seeds are classified in industry 2068; and those manufacturing packaged unpopped popcorn are classified in industry 2099.

2097 Manufactured Ice

Establishments primarily engaged in manufacturing ice for sale. Establishments primarily engaged in manufacturing dry ice are classified in industry 2813.

2098 Macaroni, Spaghetti, Vermicelli, and Noodles

Establishments primarily engaged in manufacturing dry macaroni, spaghetti, vermicelli, and noodles. Establishments primarily engaged in manufacturing canned macaroni and spaghetti are classified in industry 2032, and those manufacturing fried noodles, such as Chinese noodles, are classified in industry 2099.

2099 Food Preparations, Not Elsewhere Classified

Establishments primarily engaged in manufacturing prepared foods and miscellaneous food specialties, not elsewhere classified, such as baking powder, yeast, and other leavening compounds; peanut butter; packaged tea, including instant; ground spices; and vinegar and cider. Also included in this industry are establishments primarily engaged in manufacturing dry preparations, except flour mixes, consisting of pasta, rice, potatoes, textured vegetable protein, and similar products which are packaged with other ingredients to be prepared and cooked by the consumer. Establishments primarily engaged in manufacturing flour mixes are classified in industry group 204.

21 TOBACCO PRODUCTS

This major group includes establishments engaged in manufacturing cigarettes, cigars, smoking and chewing tobacco, snuff, and reconstituted tobacco and in stemming and redrying tobacco. Also included in this major group is the manufacture of nontobacco cigarettes. The manufacture of insecticides from tobacco byproducts is included in major group 28.

211 CIGARETTES

2111 Cigarettes

Establishments primarily engaged in manufacturing cigarettes from tobacco or other materials.

212 CIGARS

2121 Cigars

Establishments primarily engaged in manufacturing cigars.

213 CHEWING AND SMOKING TOBACCO AND SNUFF

2131 Chewing and Smoking Tobacco and Snuff

Establishments primarily engaged in manufacturing chewing and smoking tobacco and snuff.

214 TOBACCO STEMMING AND REDRYING

2141 Tobacco Stemming and Redrying

Establishments primarily engaged in the stemming and redrying of tobacco or in manufacturing reconstituted tobacco. Establishments which sell leaf tobacco as merchant wholesalers, agents, or brokers, and which also may be engaged in stemming tobacco, are classified in Wholesale Trade, industry 5159. Leaf tobacco warehouses which also may be engaged in stemming tobacco are classified in Transportation and Public Utilities, industry 4221.

22 TEXTILE MILL PRODUCTS

This major group includes establishments engaged in performing any of the following operations: (1) preparation of fiber and subsequent manufacturing of yarn, thread, braids, twine, and cordage; (2) manufacturing broadwoven fabrics, narrow woven fabrics, knit fabrics, and carpets and rugs from yarn; (3) dyeing and finishing fiber, yarn, fabrics, and knit apparel; (4) coating, waterproofing, or otherwise treating fabrics; (5) the integrated manufacture of knit apparel and other finished articles from yarn; and (6) the manufacture of felt goods, lace goods, nonwoven fabrics, and miscellaneous textiles.

This classification makes no distinction between the two types of organizations which operate in the textile industry: (1) the integrated mill which purchases materials, produces textiles and related articles within the establishment, and sells the finished products; and (2) the contract or commission mill which processes materials owned by others. Converters or other nonmanufacturing establishments which assign materials to contract mills for processing, other than knitting, are classified in nonmanufacturing industries; establishments which assign yarns to outside contractors or commission knitters for the production of knit products are classified in industry group 225.

221 BROADWOVEN FABRIC MILLS, COTTON

2211 Broadwoven Fabric Mills, Cotton

Establishments primarily engaged in weaving fabrics more than 12 inches (30.48 centimeters) in width, wholly or chiefly by weight of cotton. Establishments primarily engaged in weaving or tufting carpet and rugs are classified in

industry 2273; those making tire cord and fabrics are classified in industry 2296; and those engaged in finishing cotton broadwoven fabrics are classified in industry 2261.

222 BROADWOVEN FABRIC MILLS, MANMADE FIBER AND SILK

2221 Broadwoven Fabric Mills, Manmade Fiber and Silk

Establishments primarily engaged in weaving fabrics more than 12 inches (30.48 centimeters) in width, wholly or chiefly by weight of silk and manmade fibers including glass. Establishments primarily engaged in weaving or tufting carpets and rugs from these fibers are classified in industry 2273; those manufacturing tire cord and fabrics are classified in industry 2296; and those engaged in finishing manmade fiber and silk broadwoven goods are classified in industry 2262.

223 BROADWOVEN FABRIC MILLS, WOOL (INCLUDING DYEING AND FINISHING)

2231 Broadwoven Fabric Mills, Wool (Including Dyeing and Finishing)

Establishments primarily engaged in weaving fabrics more than 12 inches (30.48 centimeters) in width, wholly or chiefly by weight of wool, mohair, or similar animal fibers; dyeing and finishing all woven wool fabrics or dyeing wool, tops, or yarn; and those shrinking and sponging wool goods for the trade. Establishments primarily engaged in weaving or tufting wool carpets and rugs are classified in industry 2273.

224 NARROW FABRIC AND OTHER SMALLWARES MILLS: COTTON, WOOL, SILK, AND MANMADE FIBER

2241 Narrow Fabric and Other Smallwares Mills: Cotton, Wool, Silk, and Manmade Fiber

Establishments primarily engaged in weaving or braiding narrow fabrics of cotton, wool, silk, and manmade fibers, including glass fibers. These fabrics are generally 12 inches or less in width in their final form but may be made initially in wider widths that are specially constructed for cutting to narrower widths. Also included in this industry are establishments primarily engaged in producing fabric-covered elastic yarn or thread.

225 KNITTING MILLS

This industry group includes three types of organizations which operate in the knitting mill industry: (1) the integrated mill which purchases materials, produces textiles and related articles within the establishment, and sells

the finished products; (2) the contract or commission mill which processes materials owned by others; and (3) establishments commonly known as jobbers or converters of knit goods which perform the entrepreneurial functions of a manufacturing company, such as buying the raw material, designing and preparing samples, and assigning yarns to others for knitting products on their account.

2251 Women’s Full-Length and Knee-Length Hosiery, Except Socks

Establishments primarily engaged in knitting, dyeing, or finishing women’s and misses’ full-length and knee-length hosiery (except socks) both seamless and full-fashion, and panty hose. Establishments primarily engaged in knitting, dyeing, or finishing women’s and misses’ knee-length socks and anklets are classified in industry 2252. Establishments primarily engaged in manufacturing elastic (orthopedic) hosiery are classified in industry 3842.

2252 Hosiery, Not Elsewhere Classified

Establishments primarily engaged in knitting, dyeing, or finishing hosiery, not elsewhere classified. Establishments primarily engaged in manufacturing women’s full-length and knee-length hosiery (except socks), and panty hose are classified in industry 2251. Establishments primarily engaged in manufacturing elastic (orthopedic) hosiery are classified in industry 3842.

2253 Knit Outerwear Mills

Establishments primarily engaged in knitting outerwear from yarn or in manufacturing outerwear from knit fabrics produced in the same establishment. Establishments primarily engaged in hand knitting outerwear for the trade are included in this industry. Establishments primarily engaged in knitting gloves and mittens are classified in industry 2259, and those manufacturing outerwear from purchased knit fabrics are classified in major group 23.

2254 Knit Underwear and Nightwear Mills

Establishments primarily engaged in knitting underwear and nightwear from yarn or in manufacturing underwear and nightwear from knit fabrics produced in the same establishment. Establishments primarily engaged in manufacturing underwear and nightwear from purchased knit fabrics are classified in major group 23. Establishments primarily engaged in knitting robes are classified in industry 2253.

2257 Weft Knit Fabric Mills

Establishments primarily engaged in knitting weft (circular) fabrics or in dyeing, or finishing weft (circular) knit fabrics.

2258 Lace and Warp Knit Fabric Mills

Establishments primarily engaged in knitting, dyeing, or finishing warp (flat) knit fabrics, or in manufacturing, dyeing, or finishing lace goods.

2259 Knitting Mills, Not Elsewhere Classified

Establishments primarily engaged in knitting gloves and other articles, not elsewhere classified. Establishments primarily engaged in manufacturing woven or knit fabric gloves and mittens from purchased fabrics are classified in industry 2381.

226 DYEING AND FINISHING TEXTILES, EXCEPT WOOL FABRICS AND KNIT GOODS

2261 Finishers of Broadwoven Fabrics of Cotton

Establishments primarily engaged in finishing purchased cotton broadwoven fabrics, or finishing such fabrics, on a commission basis. These finishing operations include bleaching, dyeing, printing (roller, screen, flock, plisse), and other mechanical finishing, such as preshrinking, calendering, and napping. Also included in this industry are establishments primarily engaged in shrinking and sponging of cotton broadwoven fabrics for the trade and chemical finishing for water repellency, fire resistance, and mildew proofing. Establishments primarily engaged in finishing wool broadwoven fabrics are classified in industry 2231; those finishing knit goods are classified in industry group 225; and those coating or impregnating fabrics are classified in industry 2295.

2262 Finishers of Broadwoven Fabrics of Manmade Fiber and Silk

Establishments primarily engaged in finishing purchased manmade fiber and silk broadwoven fabrics or finishing such fabrics on a commission basis. These finishing operations include bleaching, dyeing, printing (roller, screen, flock, plisse), and other mechanical finishing, such as preshrinking, calendering, and napping. Establishments primarily engaged in finishing wool broadwoven fabrics are classified in industry 2231; those finishing knit goods are classified in industry group 225; and those coating or impregnating fabrics are classified in industry 2295.

2269 Finishers of Textiles, Not Elsewhere Classified

Establishments primarily engaged in dyeing and finishing textiles, not elsewhere classified, such as bleaching, dyeing, printing, and finishing of raw stock, yarn, braided goods, and narrow fabrics, except wool and knit fabrics. These establishments perform finishing operations on purchased textiles or on a commission basis.

227 CARPETS AND RUGS

2273 Carpets and Rugs

Establishments primarily engaged in manufacturing woven, tufted, and other carpets and rugs, such as art squares, floor mattings, needle punch carpeting, and door mats and mattings, from textile materials or from twisted paper, grasses, reeds, coir, sisal, jute, or rags.

228 YARN AND THREAD MILLS

2281 Yarn Spinning Mills

Establishments primarily engaged in spinning yarn wholly or chiefly by weight of cotton, manmade fibers, silk, wool, mohair, or similar animal fibers. Establishments primarily engaged in dyeing or finishing purchased yarns or finishing yarns on a commission basis are classified in industry 2231 if the yarns are of wool and in industry 2269 if they are of other fibers. Establishments primarily engaged in producing specialty yarns or producing spun yarns of other fibers are classified in industry 2299.

2282 Yarn Texturizing, Throwing, Twisting, and Winding Mills

Establishments primarily engaged in texturizing, throwing, twisting, winding, or spooling purchased yarns or manmade fiber filaments wholly or chiefly by weight of cotton, manmade fibers, silk, or wool, mohair or similar animal fibers, or in performing such activities on a commission basis. Establishments primarily engaged in dyeing or finishing purchased yarns or finishing yarns on a commission basis are classified in industry 2231 if the yarns are of wool and in industry 2269 if they are of other fibers. Establishments primarily engaged in producing and texturizing manmade fiber filaments and yarns in the same plant are classified in industries 2823 or 2824.

2284 Thread Mills

Establishments primarily engaged in manufacturing thread of cotton, silk, manmade fibers, wool or similar animal fibers. Important products of this industry include sewing, crochet, darning, embroidery, tatting, hand-knitting, and other handicraft threads. Establishments primarily engaged in manufacturing thread of flax, hemp, and ramie are classified in industry 2299.

229 MISCELLANEOUS TEXTILE GOODS

2295 Coated Fabrics, Not Rubberized

Establishments primarily engaged in manufacturing coated, impregnated, or laminated textiles, and in the special finishing of textiles, such as varnishing and waxing. Establishments primarily engaged in rubberizing purchased fabrics are classified in industry 3069, and those engaged in dyeing and finishing textiles are classified in industry group 226 or industry 2231.

2296 Tire Cord and Fabrics

Establishments primarily engaged in manufacturing cord and fabric of manmade fibers, cotton, glass, steel, or other materials for use in reinforcing rubber tires, industrial belting, fuel cells, and similar uses.

2297 Nonwoven Fabrics

Establishments primarily engaged in manufacturing nonwoven fabrics (by bonding and/or interlocking of fibers) by mechanical, chemical, thermal or solvent means, or by combinations thereof. Establishments primarily engaged in producing woven felts are classified in industry 2231; and those producing other felts are classified in industry 2299.

2298 Cordage and Twine

Establishments primarily engaged in manufacturing rope, cable, cordage, twine, and related products from abaca (Manila), sisal, henequen, hemp, cotton, paper, jute, flax, manmade fibers including glass, and other fibers.

2299 Textile Goods, Not Elsewhere Classified

Establishments primarily engaged in manufacturing textile goods, not elsewhere classified, including linen goods, jute goods, felt goods, padding and upholstery filling and processed waste and recovered fibers and flock. Establishments primarily engaged in processing textile fibers to prepare them for spinning, such as wool scouring and carbonizing and combing and converting tow to top, are also classified here. Establishments primarily engaged in manufacturing woven wool felts and wool haircloth are classified in industry 2231, and those manufacturing needle punch carpeting are classified in industry 2273. Establishments primarily engaged in manufacturing embroideries are classified in industry group 239. Establishments primarily engaged in manufacturing lace goods are classified in industry 2258. Establishments primarily engaged in sorting wiping rags or waste are classified in Wholesale Trade, industry 5093.

23 APPAREL AND OTHER FINISHED PRODUCTS MADE FROM FABRICS AND SIMILAR MATERIALS

This major group, known as the cutting-up and needle trades, includes establishments producing clothing and fabricating products by cutting and sewing purchased woven or knit textile fabrics and related materials, such as leather, rubberized fabrics, plastics, and furs. Also included are establishments that manufacture clothing by cutting and joining (for example, by adhesives) materials such as paper and nonwoven textiles. Included in the apparel industries are three types of establishments: (1) the regular or inside factories; (2) contract factories; and (3) apparel jobbers. The regular factories perform all of the usual manufacturing functions within their own plant; the contract factories manufacture apparel from materials owned

by others; and apparel jobbers perform the entrepreneurial functions of a manufacturing company, such as buying raw materials, designing and preparing samples, arranging for the manufacture of clothing from their materials, and selling of the finished apparel.

Knitting mills are classified in industry 2253 if primarily knitting outerwear, and in industry 2254 if primarily knitting underwear and nightwear. Custom tailors and dressmakers not operating on a factory basis are classified in Retail Trade, industry 5699; and establishments which purchase and resell finished garments but do not perform the functions of the apparel jobbers are classified in Wholesale Trade, industry group 513.

231 MEN'S AND BOYS' SUITS, COATS, AND OVERCOATS

2311 Men's and Boys' Suits, Coats, and Overcoats

Establishments primarily engaged in manufacturing men's and boys' tailored suits, coats, and overcoats from purchased woven or knit fabrics. Establishments primarily engaged in manufacturing uniforms (except athletic and work uniforms) are also included in this industry. Establishments primarily engaged in manufacturing men's work uniforms and clothing are classified in industry 2326, and those manufacturing men's and boys' athletic uniforms are classified in industry 2329. Knitting mills primarily engaged in manufacturing suits and coats are classified in industry 2253.

232 MEN'S AND BOYS' FURNISHINGS, WORK CLOTHING, AND ALLIED GARMENTS

2321 Men's and Boys' Shirts, Except Work Shirts

Establishments primarily engaged in manufacturing men's and boys' shirts (including polo and sport shirts) from purchased woven or knit fabrics. Establishments primarily engaged in manufacturing work shirts are classified in industry 2326. Knitting mills primarily engaged in manufacturing outerwear are classified in industry 2253.

2322 Men's and Boys' Underwear and Nightwear

Establishments primarily engaged in manufacturing men's and boys' underwear and nightwear from purchased woven or knit fabrics. Knitting mills primarily engaged in manufacturing underwear and nightwear are classified in industry 2254; and those manufacturing men's and boys' robes are classified in industry 2384.

2323 Men's and Boys' Neckwear

Establishments primarily engaged in manufacturing men's and boys' neckties, scarves, and mufflers from purchased woven or knit fabrics. Knitting mills primarily engaged in manufacturing neckties, scarves, and mufflers are classified in industry 2253.

2325 Men's and Boys' Separate Trousers and Slacks

Establishments primarily engaged in manufacturing men's and boys' separate trousers and slacks from purchased woven or knit fabrics, including jeans, dungarees, and jean-cut casual slacks. Establishments primarily engaged in manufacturing complete suits are classified in industry 2311; those manufacturing workpants (excluding jeans and dungarees) are classified in industry 2326. Knitting mills primarily engaged in manufacturing men's and boys' separate trousers and slacks are classified in industry 2253.

2326 Men's and Boys' Work Clothing

Establishments primarily engaged in manufacturing men's and boys' work shirts, workpants (excluding jeans and dungarees), other work clothing, and washable service apparel. Establishments primarily engaged in manufacturing separate trousers and slacks are classified in industry 2325.

2329 Men's and Boys' Clothing, Not Elsewhere Classified

Establishments primarily engaged in manufacturing men's and boys' clothing, not elsewhere classified, from purchased woven or knit fabrics. Establishments primarily engaged in manufacturing leather and sheep-lined garments are classified in industry 2386. Knitting mills primarily engaged in manufacturing outerwear are classified in industry 2253.

233 WOMEN'S, MISSES', AND JUNIORS' OUTERWEAR

2331 Women's, Misses', and Juniors' Blouses and Shirts

Establishments primarily engaged in manufacturing women's, misses', and juniors' blouses and shirts from purchased woven or knit fabrics. Knitting mills primarily engaged in manufacturing outerwear are classified in industry 2253. Establishments primarily engaged in manufacturing girls', children's, and infants' blouses and shirts are classified in industry 2361.

2335 Women's, Misses', and Juniors' Dresses

Establishments primarily engaged in manufacturing women's, misses', and juniors' dresses (including ensemble dresses), from purchased woven or knit fabrics, including woven or knit fabrics of paper, whether sold by the piece or by the dozen. Establishments primarily engaged in manufacturing girls', children's, and infants' dresses are classified in industry 2361. Knitting mills primarily engaged in manufacturing knit dresses are classified in industry 2253.

2337 Women's, Misses', and Juniors' Suits, Skirts, and Coats

Establishments primarily engaged in manufacturing women's, misses', and juniors' suits, pantsuits, skirts, coats, except fur coats and raincoats, and tailored jackets and vests, from purchased woven or knit fabrics. These garments are generally tailored and usually lined. Establishments primarily engaged in manufacturing fur clothing are classified in industry 2371; and those manufacturing raincoats are classified in industry 2385. Knitting mills primarily engaged in manufacturing knit outerwear are classified in industry 2253.

2339 Women's, Misses', and Juniors' Outerwear, Not Elsewhere Classified

Establishments primarily engaged in manufacturing women's, misses', and juniors' outerwear, not elsewhere classified, from purchased woven or knit fabrics. Knitting mills primarily engaged in manufacturing outerwear are classified in industry 2253.

234 WOMEN'S, MISSES', CHILDREN'S, AND INFANTS' UNDERGARMENTS

2341 Women's, Misses', Children's, and Infants' Underwear and Nightwear

Establishments primarily engaged in manufacturing women's, misses', children's, and infants' underwear and nightwear from purchased woven or knit fabrics. Knitting mills primarily engaged in manufacturing underwear and nightwear are classified in industry 2254. Establishments primarily engaged in manufacturing women's and misses' robes and dressing gowns are classified in industry 2384, and those manufacturing children's and infants' robes are classified in industry 2369. Establishments primarily engaged in manufacturing brassieres, girdles, and allied garments are classified in industry 2342.

2342 Brassieres, Girdles, and Allied Garments

Establishments primarily engaged in manufacturing brassieres, girdles, corsets, corset accessories, and allied garments. Establishments primarily engaged in manufacturing surgical and orthopedic appliances are classified in industry 3842.

235 HATS, CAPS, AND MILLINERY

2353 Hats, Caps, and Millinery

Establishments primarily engaged in manufacturing hats, caps, and millinery, and hat bodies. Establishments primarily engaged in manufacturing millinery trimmings are classified in industry 2396. Establishments primarily engaged in manufacturing hats and caps of paper are classified in industry 2679; those manufacturing caps of rubber are

classified in industry 3069; those manufacturing caps of plastics are classified in industry 3089; and those manufacturing fur hats are classified in industry 2371.

236 GIRLS', CHILDREN'S, AND INFANTS' OUTERWEAR

2361 Girls', Children's, and Infants' Dresses, Blouses, and Shirts

Establishments primarily engaged in manufacturing girls', children's, and infants' dresses, blouses, and shirts from purchased woven or knit fabrics. Knitting mills primarily engaged in manufacturing outerwear are classified in industry 2253.

2369 Girls', Children's, and Infants' Outerwear, Not Elsewhere Classified

Establishments primarily engaged in manufacturing girls', children's, and infants' outerwear, not elsewhere classified, from purchased woven or knit fabrics. Knitting mills primarily engaged in manufacturing outerwear are classified in industry 2253.

237 FUR GOODS

2371 Fur Goods

Establishments primarily engaged in manufacturing fur coats, and other clothing, accessories, and trimmings made of fur. Establishments primarily engaged in manufacturing sheep-lined clothing are classified in industry 2386, and those engaged in dyeing and dressing of furs are classified in industry 3999.

238 MISCELLANEOUS APPAREL AND ACCESSORIES

2381 Dress and Work Gloves, Except Knit and All-Leather

Establishments primarily engaged in manufacturing dress, semidress, and work gloves and mittens from purchased woven or knit fabrics, or from these materials combined with leather or plastics. Knitting mills primarily engaged in manufacturing gloves and mittens are classified in industry 2259; establishments primarily engaged in manufacturing leather gloves are classified in industry 3151; those manufacturing sporting and athletic gloves are classified in industry 3949; and those manufacturing safety gloves are classified in industry 3842.

2384 Robes and Dressing Gowns

Establishments primarily engaged in manufacturing men's, boys', and women's robes and dressing gowns from purchased woven or knit fabrics. Establishments primarily

engaged in manufacturing girls', children's, and infants' robes from purchased fabric are classified in industry 2369. Knitting mills primarily engaged in manufacturing knit robes and dressing gowns are classified in industry 2253.

2385 Waterproof Outerwear

Establishments primarily engaged in manufacturing raincoats and other waterproof outerwear from purchased rubberized fabrics, plastics, and similar materials. Included in this industry are establishments primarily engaged in manufacturing waterproof or water-repellant outerwear from purchased woven or knit fabrics other than wool. Establishments primarily engaged in manufacturing men's and boys' oiled-fabric work clothing are classified in industry 2326, and those manufacturing vulcanized rubber clothing and clothing made from rubberized fabrics produced in the same establishment are classified in industry 3069.

2386 Leather and Sheep-Lined Clothing

Establishments primarily engaged in manufacturing leather and sheep-lined clothing. Establishments primarily engaged in manufacturing leather gloves and mittens are classified in industry 3151, and those manufacturing fur clothing are classified in industry 2371.

2387 Apparel Belts

Establishments primarily engaged in manufacturing apparel belts of any material.

2389 Apparel and Accessories, Not Elsewhere Classified

Establishments primarily engaged in manufacturing suspenders, garters, handkerchiefs, and other apparel, not elsewhere classified, such as academic caps and gowns, vestments, and theatrical costumes. Also included are establishments primarily engaged in manufacturing clothing by cutting and joining (for example, by adhesives) materials such as paper and nonwoven textiles.

239 MISCELLANEOUS FABRICATED TEXTILE PRODUCTS

2391 Curtains and Draperies

Establishments primarily engaged in manufacturing curtains and draperies from purchased materials. Establishments primarily engaged in manufacturing lace curtains on lace machines are classified in industry 2258, and those manufacturing shower curtains are classified in industry 2392.

2392 Housefurnishings, Except Curtains and Draperies

Establishments primarily engaged in manufacturing housefurnishings, such as blankets, bedspreads, sheets, tablecloths, towels, and shower curtains from purchased materials. Establishments primarily engaged in manufacturing

curtains and draperies are classified in industry 2391. Establishments producing housefurnishings primarily of fabric woven at the same establishment are classified in industries 2211, 2221, 2231, or 2299 according to fiber.

2393 Textile Bags

Establishments primarily engaged in manufacturing shipping and other industrial bags from purchased fabrics. Establishments primarily engaged in manufacturing plastics bags are classified in industry 2673; those manufacturing laundry, wardrobe, shoe, and other textile housefurnishing bags are classified in industry 2392; and those manufacturing luggage are classified in industry 3161.

2394 Canvas and Related Products

Establishments primarily engaged in manufacturing awnings, tents, and related products from purchased fabrics. Establishments primarily engaged in manufacturing canvas bags are classified in industry 2393.

2395 Pleating, Decorative and Novelty Stitching, and Tucking for the Trade

Establishments primarily engaged in pleating, decorative and novelty stitching, and tucking for the trade. Establishments primarily engaged in performing similar services for individuals are classified in service industries. Establishments primarily engaged in manufacturing trimmings are classified in industry 2396.

2396 Automotive Trimmings, Apparel Findings, and Related Products

Establishments primarily engaged in manufacturing automotive trimmings, apparel findings, and related products. Included in this industry are establishments primarily engaged in printing and stamping on fabric articles.

2397 Schiffli Machine Embroideries

Establishments primarily engaged in manufacturing Schiffli machine embroideries.

2399 Fabricated Textile Products, Not Elsewhere Classified

Establishments primarily engaged in manufacturing fabricated textile products, not elsewhere classified.

24 LUMBER AND WOOD PRODUCTS, EXCEPT FURNITURE

This major group includes establishments engaged in cutting timber and pulpwood; merchant sawmills, lath mills, shingle mills, cooperage stock mills, planing mills, and plywood mills and veneer mills engaged in producing lumber and wood basic materials; and establishments engaged in manufacturing finished articles made entirely

or mainly of wood or related materials. Certain types of establishments producing wood products are classified elsewhere. For example, furniture and office and store fixtures are classified in major group 25; musical instruments, toys and playground equipment, and caskets are classified in major group 39. Woodworking in connection with construction, in the nature of reconditioning and repair, or performed to individual order, is classified in nonmanufacturing industries. Establishments engaged in integrated operations of logging combined with sawmills, pulp mills, or other converting activity, with the logging not separately reported, are classified according to the primary product shipped.

241 LOGGING

2411 Logging

Establishments primarily engaged in cutting timber and in producing rough, round, hewn, or riven primary forest or wood raw materials, or in producing wood chips in the field. Independent contractors engaged in estimating or trucking timber, but who perform no cutting operations, are classified in nonmanufacturing industries. Establishments primarily engaged in the collection of bark, sap, gum, and other forest products are classified in Forestry, major group 08.

242 SAWMILLS AND PLANING MILLS

2421 Sawmills and Planing Mills, General

Establishments primarily engaged in sawing rough lumber and timber from logs and bolts, or resawing cants and flitches into lumber, including box lumber and softwood cut stock; planing mills combined with sawmills; and separately operated planing mills which are engaged primarily in producing surfaced lumber and standard workings or patterns of lumber. This industry includes establishments primarily engaged in sawing lath and railroad ties and in producing tobacco hogshead stock, wood chips, and snow fence lath. Establishments primarily engaged in manufacturing box shook or boxes are classified in industry group 244; those manufacturing sash, doors, wood molding, window and door frames, and other fabricated millwork are classified in industry group 243; and those manufacturing hardwood dimension and flooring are classified in industry 2426.

2426 Hardwood Dimension and Flooring Mills

Establishments primarily engaged in manufacturing hardwood dimension lumber and workings therefrom; and other hardwood dimension, semifabricated or ready for assembly; hardwood flooring; and wood frames for household furniture. Establishments primarily engaged in manufacturing stairwork, molding, and trim are classified in industry 2431; and those manufacturing textile machinery bobbins, picker sticks, and shuttles are classified in industry 3552.

2429 Special Product Sawmills, Not Elsewhere Classified

Mills primarily engaged in manufacturing excelsior, wood shingles, and cooperage stock; and in sawing special products, not elsewhere classified.

243 MILLWORK, VENEER, PLYWOOD, AND STRUCTURAL WOOD MEMBERS

2431 Millwork

Establishments primarily engaged in manufacturing fabricated wood millwork, including wood millwork covered with materials such as metal and plastics. Planing mills primarily engaged in producing millwork are included in this industry, but planing mills primarily producing standard workings or patterns of lumber are classified in industry 2421. Establishments primarily manufacturing wood kitchen cabinets and bathroom vanities for permanent installation are classified in industry 2434.

2434 Wood Kitchen Cabinets

Establishments primarily engaged in manufacturing wood kitchen cabinets and wood bathroom vanities, generally for permanent installation. Establishments primarily engaged in manufacturing free-standing cabinets and vanities are classified in major group 25. Establishments primarily engaged in building custom cabinets for individuals are classified in Retail Trade, industry 5712.

2435 Hardwood Veneer and Plywood

Establishments primarily engaged in producing commercial hardwood veneer and those primarily engaged in manufacturing commercial plywood or prefinished hardwood plywood. This includes nonwood backed or faced veneer and nonwood faced plywood, from veneer produced in the same establishment or from purchased veneer. Establishments primarily engaged in the production of veneer which is used in the same establishment for the manufacture of wood containers, such as fruit and vegetable baskets and wood boxes are classified in industry group 244.

2436 Softwood Veneer and Plywood

Establishments primarily engaged in producing commercial softwood veneer and plywood, from veneer produced in the same establishment or from purchased veneer. Establishments primarily engaged in producing commercial hardwood veneer and plywood are classified in industry 2435. Establishments primarily engaged in the production of veneer which is used in the same establishment for the manufacture of wood containers such as fruit and vegetable baskets and wood boxes are classified in industry group 244.

2439 Structural Wood Members, Not Elsewhere Classified

Establishments primarily engaged in producing laminated or fabricated trusses, arches, and other structural members of lumber. Establishments primarily engaged in fabrication on the site of construction are classified in Division C, Construction. Establishments primarily engaged in producing prefabricated wood buildings, sections, and panels are classified in industry 2452.

244 WOOD CONTAINERS

2441 Nailed and Lock Corner Wood Boxes and Shook

Establishments primarily engaged in manufacturing nailed and lock corner wood boxes (lumber or plywood), and shook for nailed and lock corner boxes.

2448 Wood Pallets and Skids

Establishments primarily engaged in manufacturing wood or wood and metal combination pallets and skids.

2449 Wood Containers, Not Elsewhere Classified

Establishments primarily engaged in manufacturing wood containers, not elsewhere classified, such as cooperage, wirebound boxes and crates, and other veneer and plywood containers. Establishments primarily engaged in manufacturing tobacco hogshead stock are classified in industry 2421, and those manufacturing cooperage stock are classified in industry 2429.

245 WOOD BUILDINGS AND MOBILE HOMES

2451 Mobile Homes

Establishments primarily engaged in manufacturing mobile homes and nonresidential mobile buildings. These units are generally more than 35 feet long, at least 8 feet wide, do not have facilities for storage of water or waste, and are equipped with wheels. Trailers that are generally 35 feet long or less, 8 feet wide or less, and with self-contained facilities are classified in industry 3792. Portable wood buildings not equipped with wheels are classified in industry 2452.

2452 Prefabricated Wood Buildings and Components

Establishments primarily engaged in manufacturing prefabricated wood buildings, sections, and panels. Establishments primarily engaged in fabricating buildings on the site of construction are classified in Division C, Construction.

249 MISCELLANEOUS WOOD PRODUCTS

2491 Wood Preserving

Establishments primarily engaged in treating wood, sawed or planed in other establishments, with creosote or other preservatives to prevent decay and to protect against fire and insects. This industry also includes the cutting, treating, and selling of poles, posts, and piling, but establishments primarily engaged in manufacturing other wood products, which they may also treat with preservatives, are not included.

2493 Reconstituted Wood Products

Establishments primarily engaged in manufacturing reconstituted wood products. Important products of this industry are hardboard, particleboard, insulation board, medium density fiberboard, waferboard, and oriented strandboard.

2499 Wood Products, Not Elsewhere Classified

Establishments primarily engaged in manufacturing miscellaneous wood products, not elsewhere classified, and products from rattan, reed, splint, straw, veneer, veneer strips, wicker, and willow.

25 FURNITURE AND FIXTURES

This major group includes establishments engaged in manufacturing household, office, public building, and restaurant furniture; and office and store fixtures. Establishments primarily engaged in the production of millwork are classified in industry 2431; those manufacturing wood kitchen cabinets are classified in industry 2434; those manufacturing cut stone and concrete furniture are classified in major group 32; those manufacturing laboratory and hospital furniture, except hospital beds, are classified in major group 38; those manufacturing beauty and barber shop furniture are classified in major group 39; and those engaged in woodworking to individual order or in the nature of reconditioning and repair are classified in nonmanufacturing industries.

251 HOUSEHOLD FURNITURE

2511 Wood Household Furniture, Except Upholstered

Establishments primarily engaged in manufacturing wood household furniture commonly used in dwellings. This industry also includes establishments manufacturing camp furniture. Establishments engaged in manufacturing upholstered furniture are classified in industry 2512; those manufacturing reed, rattan, and similar furniture are classified in industry 2519; those manufacturing television,

radio, phonograph, and sewing machine cabinets are classified in industry 2517; and those manufacturing kitchen cabinets and bathroom vanities are classified in industry 2434.

2512 Wood Household Furniture, Upholstered

Establishments primarily engaged in manufacturing upholstered furniture on wood frames. Shops primarily engaged in reupholstering furniture, or upholstering frames to individual order, are classified in Services, industry 7641, or Retail Trade, industry 5712. Establishments primarily engaged in manufacturing dual-purpose sleep furniture, such as convertible sofas and chair beds, are classified in industry 2515, regardless of the material used in the frame. Establishments primarily engaged in manufacturing wood frames for upholstered furniture are classified in industry 2426.

2514 Metal Household Furniture

Establishments primarily engaged in manufacturing metal household furniture of a type commonly used in dwellings. Establishments primarily engaged in manufacturing dual-purpose sleep furniture, such as convertible sofas and chair beds, are classified in industry 2515, regardless of the material used in the frame.

2515 Mattresses, Foundations, and Convertible Beds

Establishments primarily engaged in manufacturing inner-spring mattresses, box spring mattresses, and noninner-spring mattresses containing felt, foam rubber, urethane, hair, or any other filling material; and assembled wire springs (fabric, coil, or box) for use on beds, couches, and cots. This industry also includes establishments primarily engaged in manufacturing dual-purpose sleep furniture, such as convertible sofas and chair beds, regardless of the material used in the frame. Establishments primarily engaged in manufacturing automobile seats and backs are classified in industry 2531; those manufacturing individual wire springs are classified in industry 3495; and those manufacturing paddings and upholstery filling are classified in industry 2299.

2517 Wood Television, Radio, Phonograph, and Sewing Machine Cabinets

Establishments primarily engaged in manufacturing wood cabinets for radios, television sets, phonographs, and sewing machines.

2519 Household Furniture, Not Elsewhere Classified

Establishments primarily engaged in manufacturing reed, rattan, and other wicker furniture, plastics and fiberglass household furniture and cabinets, and household furniture, not elsewhere classified.

252 OFFICE FURNITURE

2521 Wood Office Furniture

Establishments primarily engaged in manufacturing office furniture, chiefly of wood.

2522 Office Furniture, Except Wood

Establishments primarily engaged in manufacturing office furniture, except furniture chiefly of wood. Establishments primarily engaged in manufacturing safes and vaults are classified in industry 3499.

253 PUBLIC BUILDING AND RELATED FURNITURE

2531 Public Building and Related Furniture

Establishments primarily engaged in manufacturing furniture for schools, theaters, assembly halls, churches, and libraries. Establishments primarily engaged in manufacturing seats for public conveyances, as well as seats for automobiles and aircraft, are included in this industry. Establishments primarily engaged in manufacturing stone furniture are classified in industry 3281, and those manufacturing concrete furniture are classified in industry 3272.

254 PARTITIONS, SHELVING, LOCKERS, AND OFFICE AND STORE FIXTURES

2541 Wood Office and Store Fixtures, Partitions, Shelving, and Lockers

Establishments primarily engaged in manufacturing shelving, lockers, and office and store fixtures, plastics laminated fixture tops, and related fabricated products, chiefly of wood. Prefabricated partitions are included in this industry if designed to be attached to the floor and are classified in industry 2521 if designed to be free-standing or part of an office furniture panel system. Establishments primarily engaged in manufacturing refrigerated cabinets, showcases, and display cases are classified in industry 3585.

2542 Office and Store Fixtures, Partitions, Shelving, and Lockers, Except Wood

Establishments primarily engaged in manufacturing office and store fixtures, shelving, storage racks, lockers, and related fabricated products, chiefly of materials other than wood. Prefabricated partitions are included in this industry if designed to be attached to the floor and are classified in industry 2522 if designed to be free-standing or part of an office furniture panel system. Establishments primarily engaged in manufacturing refrigerated cabinets, showcases, and display cases are classified in industry 3585 and those manufacturing safes and vaults are classified in industry 3499.

259 MISCELLANEOUS FURNITURE AND FIXTURES

2591 Drapery Hardware and Window Blinds and Shades

Establishments primarily engaged in manufacturing curtain and drapery rods, poles, and fixtures; and venetian blinds and other window blinds and shades, except of canvas. Establishments primarily engaged in manufacturing canvas shades and awnings are classified in industry 2394.

2599 Furniture and Fixtures, Not Elsewhere Classified

Establishments primarily engaged in manufacturing furniture and fixtures, not elsewhere classified, including hospital beds and furniture specially designed for use in restaurants, bars, cafeterias, bowling centers, and ships.

26 PAPER AND ALLIED PRODUCTS

This major group includes establishments primarily engaged in the manufacture of pulps from wood and other cellulose fibers, and from rags; the manufacture of paper and paperboard; and the manufacture of paper and paperboard into converted products, such as paper coated off the paper machine, paper bags, paper boxes, and envelopes. Also included are establishments primarily engaged in manufacturing bags of plastics film and sheet. Certain types of converted paper products are classified elsewhere, such as abrasive paper which is in industry 3291; carbon paper in industry 3955; and photosensitized and blueprint paper in industry 3861.

261 PULP MILLS

2611 Pulp Mills

Establishments primarily engaged in manufacturing pulp from wood or from other materials, such as rags, linters, wastepaper, and straw. Establishments engaged in integrated logging and pulp mill operations are classified according to the primary products shipped. Establishments engaged in integrated operations of producing pulp and manufacturing paper, paperboard, or products thereof are classified in industry 2621 if primarily shipping paper or paper products; in industry 2631 if primarily shipping paperboard or paperboard products; and in industry 2611 if primarily shipping pulp. Establishments primarily engaged in cutting pulpwood are classified in industry 2411.

262 PAPER MILLS

2621 Paper Mills

Establishments primarily engaged in manufacturing paper from wood pulp and other fiber pulp, and which may also manufacture converted paper products. Establishments

primarily engaged in integrated operations of producing pulp and manufacturing paper are included in this industry if primarily shipping paper or paper products. Establishments primarily engaged in manufacturing converted paper products from purchased paper stock are classified in industry group 265 or 267.

263 PAPERBOARD MILLS

2631 Paperboard Mills

Establishments primarily engaged in manufacturing paperboard, including paperboard coated on the paperboard machine, from wood pulp and other fiber pulp; and which may also manufacture converted paperboard products. Establishments primarily engaged in integrated operations of producing pulp and manufacturing paperboard are included in this industry if primarily shipping paperboard or paperboard products. Establishments primarily engaged in manufacturing converted paperboard products from purchased paperboard are classified in industry group 265 or 267. Establishments primarily engaged in manufacturing insulation board and other reconstituted wood fiberboard are classified in industry 2493.

265 PAPERBOARD CONTAINERS AND BOXES

2652 Setup Paperboard Boxes

Establishments primarily engaged in manufacturing setup paperboard boxes from purchased paperboard.

2653 Corrugated and Solid Fiber Boxes

Establishments primarily engaged in manufacturing corrugated and solid fiber boxes and related products from purchased paperboard or fiber stock. Important products of this industry include corrugated and solid fiberboard boxes, pads, partitions, display items, pallets, single face products, and corrugated sheets.

2655 Fiber Cans, Tubes, Drums, and Similar Products

Establishments primarily engaged in manufacturing from purchased materials fiber cans, cones, drums, and similar products, with or without metal ends, and vulcanized fiber boxes.

2656 Sanitary Food Containers, Except Folding

Establishments primarily engaged in manufacturing non-folding food containers from special foodboard. Important products of this industry include fluid milk containers, round nested food containers, paper cups for hot or cold drinks, and stamped plates, dishes, spoons, and similar

products. Establishments primarily engaged in manufacturing similar items of plastics materials are classified in industry group 308 and those making folding sanitary cartons are classified in industry 2657.

2657 Folding Paperboard Boxes, Including Sanitary

Establishments primarily engaged in manufacturing folding paperboard boxes from purchased paperboard, including folding sanitary food boxes or cartons except milk cartons.

267 CONVERTED PAPER AND PAPERBOARD PRODUCTS, EXCEPT CONTAINERS AND BOXES

2671 Packaging Paper and Plastics Film, Coated and Laminated

Establishments primarily engaged in manufacturing coated or laminated flexible materials made of combinations of paper, plastics film, metal foil, and similar materials (excluding textiles) for packaging purposes. These are made from purchased sheet materials or plastics resins and may be printed in the same establishment. Establishments primarily engaged in manufacturing coated or laminated paper for other purposes are classified in industry 2672, including establishments manufacturing all gummed or pressure sensitive tape; those manufacturing unsupported plastics film are classified in industry 3081; those manufacturing aluminum foil are classified in industry 3497; and those manufacturing paper from pulp are classified in industry 2621.

2672 Coated and Laminated Paper, Not Elsewhere Classified

Establishments primarily engaged in manufacturing coated, laminated, or processed paper and film from purchased paper, except for packaging. Also included are establishments primarily manufacturing gummed paper products and pressure sensitive tape with backing of any material other than rubber, for any application. Establishments primarily engaged in manufacturing coated and laminated paper for packaging are classified in industry 2671; those manufacturing carbon paper are classified in industry 3955; and those manufacturing photographic and blueprint paper are classified in industry 3861.

2673 Plastics, Foil, and Coated Paper Bags

Establishments primarily engaged in manufacturing bags of unsupported plastics film, coated paper, metal foil, or laminated combinations of these materials, whether or not printed. Establishments primarily engaged in manufacturing uncoated paper bags and multiwall bags and sacks are classified in industry 2674; those manufacturing textile

bags are classified in industry 2393; and those manufacturing garment storage bags, except of plastics film and paper, are classified in industry 2392.

2674 Uncoated Paper and Multiwall Bags

Establishments primarily engaged in manufacturing uncoated paper bags, or manufacturing multiwall bags and sacks, whether or not coated or containing plastics film or metal foil. Establishments primarily engaged in manufacturing bags from plastics, unsupported film, foil, coated paper, or laminated or coated combinations of these materials, are classified in industry 2673; and those manufacturing textile bags are classified in industry 2393.

2675 Die-Cut Paper and Paperboard and Cardboard-

Establishments primarily engaged in die-cutting purchased paper and paperboard; and in manufacturing cardboard by laminating, lining, or surface-coating paperboard. Establishments primarily engaged in laminating building paper from purchased paper are classified in industry 2679.

2676 Sanitary Paper Products

Establishments primarily engaged in manufacturing sanitary paper products from purchased paper, such as facial tissues and handkerchiefs, table napkins, toilet paper, towels, disposable diapers, and sanitary napkins and tampons.

2677 Envelopes

Establishments primarily engaged in manufacturing envelopes of any description from purchased paper and paperboard. Establishments primarily engaged in manufacturing stationery are classified in industry 2678.

2678 Stationery, Tablets, and Related Products

Establishments primarily engaged in manufacturing stationery, tablets, looseleaf fillers, and related items from purchased paper. Establishments primarily engaged in manufacturing envelopes are classified in industry 2677.

2679 Converted Paper and Paperboard Products, Not Elsewhere Classified

Establishments primarily engaged in manufacturing miscellaneous converted paper or paperboard products, not elsewhere classified, from purchased paper or paperboard. Also included in this industry are pressed and molded pulp goods, such as papier-mache articles, other than statuary and art goods.

27 PRINTING, PUBLISHING, AND ALLIED INDUSTRIES

This major group includes establishments engaged in printing by one or more common processes, such as letterpress; lithography (including offset), gravure, or screen;

and those establishments which perform services for the printing trade, such as bookbinding and platemaking. This major group also includes establishments engaged in publishing newspapers, books, and periodicals, regardless of whether or not they do their own printing. News syndicates are classified in Services, industry 7383. Establishments primarily engaged in textile printing and finishing fabrics are classified in major group 22, and those engaged in printing and stamping on fabric articles are classified in industry 2396. Establishments manufacturing products that contain incidental printing, such as advertising or instructions, are classified according to the nature of the products for example, as cartons, bags, plastics film, or paper.

271 NEWSPAPERS: PUBLISHING, OR PUBLISHING AND PRINTING

2711 Newspapers: Publishing, or Publishing and Printing

Establishments primarily engaged in publishing newspapers, or in publishing and printing newspapers. These establishments carry on the various operations necessary for issuing newspapers, including the gathering of news and the preparation of editorials and advertisements, but may or may not perform their own printing. Commercial printing is frequently carried on by establishments engaged in publishing and printing newspapers, but, even though the commercial printing may be of major importance, such establishments are included in this industry. Establishments not engaged in publishing newspapers, but which print newspapers for publishers, are classified in industry group 275. News syndicates are classified in Services, industry 7383.

272 PERIODICALS: PUBLISHING, OR PUBLISHING AND PRINTING

2721 Periodicals: Publishing, or Publishing and Printing

Establishments primarily engaged in publishing periodicals, or in publishing and printing periodicals. These establishments carry on the various operations necessary for issuing periodicals, but may or may not perform their own printing. Establishments not engaged in publishing periodicals, but which print periodicals for publishers, are classified in industry group 275.

273 BOOKS

2731 Books: Publishing, or Publishing and Printing

Establishments primarily engaged in publishing, or in publishing and printing, books and pamphlets. Establishments primarily engaged in printing or in printing and binding (but not publishing) books and pamphlets are classified in industry 2732.

2732 Book Printing

Establishments primarily engaged in printing, or in printing and binding, books and pamphlets, but not engaged in publishing. Establishments primarily engaged in publishing, or in publishing and printing, books and pamphlets are classified in industry 2731. Establishments engaged in both printing and binding books, but primarily binding books printed elsewhere, are classified in industry 2789.

274 MISCELLANEOUS PUBLISHING

2741 Miscellaneous Publishing

Establishments primarily engaged in miscellaneous publishing activities, not elsewhere classified, whether or not engaged in printing. Establishments primarily engaged in offering financial, credit, or other business services, and which may publish directories as part of this service, are classified in Division I, Services.

275 COMMERCIAL PRINTING

2752 Commercial Printing, Lithographic

Establishments primarily engaged in printing by the lithographic process. The greater part of the work in this industry is performed on a job or custom basis; but in some cases lithographed calendars, maps, posters, decalcomanias, or other products are made for sale. Offset printing, photo-offset printing, and photolithographing are also included in this industry. Establishments primarily engaged in lithographing books and pamphlets, without publishing, are classified in industry 2732. Establishments primarily engaged in publishing or printing greeting cards are classified in industry 2771. Establishments primarily engaged in preparing lithographic or offset plates and in related services are classified in industry 2796. Establishments primarily engaged in providing photocopying services are classified in Services, industry 7334.

2754 Commercial Printing, Gravure

Establishments primarily engaged in gravure printing. Establishments primarily engaged in making and preparing plates for printing are classified in industry 2796.

2759 Commercial Printing, Not Elsewhere Classified

Establishments primarily engaged in commercial or job printing, not elsewhere classified. This industry includes general printing shops, not elsewhere classified, as well as shops specializing in printing newspapers and periodicals for others.

276 MANIFOLD BUSINESS FORMS

2761 Manifold Business Forms

Establishments primarily engaged in designing and printing, by any process, special forms for use in the operation of a business, in single and multiple sets, including carbonized or interleaved with carbon or otherwise processed for

multiple reproduction.

277 GREETING CARDS

2771 Greeting Cards

Establishments primarily engaged in publishing, printing by any process, or both, of greeting cards for all occasions. Establishments primarily engaged in producing hand painted greeting cards are classified in Services, industry 8999.

278 BLANKBOOKS, LOOSELEAF BINDERS, AND BOOKBINDING AND RELATED WORK

2782 Blankbooks, Looseleaf Binders and Devices

Establishments primarily engaged in manufacturing blankbooks, looseleaf devices, and library binders; and in ruling paper.

2789 Bookbinding and Related Work

Establishments primarily engaged in edition, trade, job, and library bookbinding. Also included in this industry are establishments primarily engaged in book or paper bronzing, gilding, and edging; in map and sample mounting; and in other services related to bookbinding. Establishments primarily binding books printed elsewhere are classified in this industry, but those primarily binding books printed in the same establishment are classified in industry group 273.

279 SERVICE INDUSTRIES FOR THE PRINTING TRADE

2791 Typesetting

Establishments primarily engaged in typesetting for the trade, including advertisement typesetting.

2796 Platemaking and Related Services

Establishments primarily engaged in making plates for printing purposes and in related services. Also included are establishments primarily engaged in making positives or negatives from which offset lithographic plates are made. These establishments do not print from the plates which they make, but prepare them for use by others. Engraving for purposes other than printing is classified in industry 3479.

28 CHEMICALS AND ALLIED PRODUCTS

This major group includes establishments producing basic chemicals, and establishments manufacturing products by predominantly chemical processes. Establishments classified in this major group manufacture three general

classes of products: (1) basic chemicals, such as acids, alkalies, salts, and organic chemicals; (2) chemical products to be used in further manufacture, such as synthetic fibers, plastics materials, dry colors, and pigments; and (3) finished chemical products to be used for ultimate consumption, such as drugs, cosmetics, and soaps; or to be used as materials or supplies in other industries, such as paints, fertilizers, and explosives. The mining of natural alkalies and other natural potassium, sodium, and boron compounds, of natural rock salt, and of other natural chemicals and fertilizers are classified in Mining, industry group 147. Establishments primarily engaged in manufacturing nonferrous metals and highpercentage ferroalloys are classified in major group 33; those manufacturing silicon carbide are classified in major group 32; those manufacturing baking powder, other leavening compounds, and starches are classified in major group 20; and those manufacturing artists' colors are classified in major group 39. Establishments primarily engaged in packaging, repackaging, and bottling of purchased chemical products, but not engaged in manufacturing chemicals and allied products, are classified in Wholesale or Retail Trade industries.

281 INDUSTRIAL INORGANIC CHEMICALS

This industry group includes establishments primarily engaged in manufacturing basic industrial inorganic chemicals. Establishments primarily engaged in manufacturing formulated agricultural pesticides are classified in industry 2879; those manufacturing medicinal chemicals, drugs, and medicines are classified in industry group 283; and those manufacturing soap and cosmetics are classified in industry group 284.

2812 Alkalies and Chlorine

Establishments primarily engaged in manufacturing alkalies and chlorine. Establishments primarily engaged in mining natural alkalies are classified in Mining, industry 1474.

2813 Industrial Gases

Establishments primarily engaged in manufacturing industrial gases (including organic) for sale in compressed, liquid, and solid forms. Establishments primarily engaged in manufacturing fluorine and sulfur dioxide are classified in industry 2819; those manufacturing household ammonia are classified in industry 2842; those manufacturing other ammonia are classified in industry 2873; those manufacturing chlorine are classified in industry 2812; and those manufacturing fluorocarbon gases are classified in industry 2869. Distributors of industrial gases and establishments primarily engaged in shipping liquid oxygen are classified in Wholesale Trade, industry 5169.

2816 Inorganic Pigments

Establishments primarily engaged in manufacturing inorganic pigments. Important products of this industry include black pigments, except carbon black, white pigments, and

color pigments. Organic color pigments, except animal black and bone black, are classified in industry 2865, and those manufacturing carbon black are classified in industry 2895.

2819 Industrial Inorganic Chemicals, Not Elsewhere Classified

Establishments primarily engaged in manufacturing industrial inorganic chemicals, not elsewhere classified. Establishments primarily engaged in mining, milling, or otherwise preparing natural potassium, sodium, or boron compounds (other than common salt) are classified in industry 1474. Establishments primarily engaged in manufacturing household bleaches are classified in industry 2842; those manufacturing phosphoric acid are classified in industry 2874; and those manufacturing nitric acid, anhydrous ammonia, and other nitrogenous fertilizer materials are classified in industry 2873.

282 PLASTICS MATERIALS AND SYNTHETIC RESINS, SYNTHETIC RUBBER, CELLULOSIC AND OTHER MANMADE FIBERS, EXCEPT GLASS

This group includes chemical establishments primarily engaged in manufacturing plastics materials and synthetic resins, synthetic rubbers, and cellulosic and other man-made fibers. Establishments primarily engaged in the manufacture of rubber products, and those primarily engaged in the compounding of purchased resins or the fabrication of plastics sheets, rods, and miscellaneous plastics products, are classified in major group 30; and textile mills primarily engaged in throwing, spinning, weaving, or knitting textile products from manufactured fibers are classified in major group 22.

2821 Plastics Materials, Synthetic Resins, and Nonvulcanizable Elastomers

Establishments primarily engaged in manufacturing synthetic resins, plastics materials, and nonvulcanizable elastomers. Important products of this industry include: cellulose plastics materials; phenolic and other tar acid resins; urea and melamine resins; vinyl resins; styrene resins; alkyd resins; acrylic resins; polyethylene resins; polypropylene resins; rosin modified resins; coumarone-indene and petroleum polymer resins; miscellaneous resins, including polyamide resins, silicones, polyisobutylenes, polyesters, polycarbonate resins, acetal resins, and fluorohydrocarbon resins; and casein plastics. Establishments primarily engaged in manufacturing fabricated plastics products or plastics film, sheet, rod, nontextile monofilaments and regenerated cellulose products, and vulcanized fiber are classified in industry group 308, whether from purchased resins or from resins produced in the same plant. Establishments primarily engaged in compounding purchased resins are classified in industry 3087. Establishments primarily manufacturing adhesives are classified in industry 2891.

2822 Synthetic Rubber (Vulcanizable Elastomers)

Establishments primarily engaged in manufacturing synthetic rubber by polymerization or copolymerization. An elastomer for the purpose of this classification is a rubber-like material capable of vulcanization, such as copolymers of butadiene and styrene, or butadiene and acrylonitrile, polybutadienes, chloroprene rubbers, and isobutylene-isoprene copolymers. Butadiene copolymers containing less than 50 percent butadiene are classified in industry 2821. Natural chlorinated rubbers and cyclized rubbers are considered as semifinished products and are classified in industry 3069.

2823 Cellulosic Manmade Fibers

Establishments primarily engaged in manufacturing cellulosic fibers (including cellulose acetate and regenerated cellulose such as rayon by the viscose or cuprammonium process) in the form of monofilament, yarn, staple, or tow suitable for further manufacturing on spindles, looms, knitting machines, or other textile processing equipment.

2824 Manmade Organic Fibers, Except Cellulosic

Establishments primarily engaged in manufacturing man-made organic fibers, except cellulosic (including those of regenerated proteins, and of polymers or copolymers of such components as vinyl chloride, vinylidene chloride, linear esters, vinyl alcohols, acrylonitrile, ethylenes, amides, and related polymeric materials), in the form of monofilament, yarn, staple, or tow suitable for further manufacturing on spindles, looms, knitting machines, or other textile processing equipment. Establishments primarily engaged in manufacturing textile glass fibers are classified in industry 3229.

283 DRUGS

This group includes establishments primarily engaged in manufacturing, fabricating, or processing medicinal chemicals and pharmaceutical products. Also included in this group are establishments primarily engaged in the grading, grinding, and milling of botanicals.

2833 Medicinal Chemicals and Botanical Products

Establishments primarily engaged in: (1) manufacturing bulk organic and inorganic medicinal chemicals and their derivatives and (2) processing (grading, grinding, and milling) bulk botanical drugs and herbs. Included in this industry are establishments primarily engaged in manufacturing agar-agar and similar products of natural origin, endocrine products, manufacturing or isolating basic vitamins, and isolating active medicinal principals such as alkaloids from botanical drugs and herbs.

2834 Pharmaceutical Preparations

Establishments primarily engaged in manufacturing, fabricating, or processing drugs in pharmaceutical preparations for human or veterinary use. The greater part of the products of these establishments are finished in the form intended for final consumption, such as ampoules, tablets, capsules, vials, ointments, medicinal powders, solutions, and suspensions. Products of this industry consist of two important lines, namely: (1) pharmaceutical preparations promoted primarily to the dental, medical, or veterinary professions, and (2) pharmaceutical preparations promoted primarily to the public.

2835 In Vitro and In Vivo Diagnostic Substances

Establishments primarily engaged in manufacturing in vitro and in vivo diagnostic substances, whether or not packaged for retail sale. These materials are chemical, biological, and radioactive substances used in diagnosing or monitoring the state of human or veterinary health by identifying and measuring normal or abnormal constituents of body fluids or tissues.

2836 Biological Products, Except Diagnostic Substances

Establishments primarily engaged in the production of bacterial and virus vaccines, toxoids, and analogous products (such as allergenic extracts), serums, plasmas, and other blood derivatives for human or veterinary use, other than in vitro and in vivo diagnostic substances. Establishments primarily engaged in manufacturing in vitro and in vivo diagnostic substances are classified in industry 2835.

284 SOAP, DETERGENTS, AND CLEANING PREPARATIONS; PERFUMES, COSMETICS, AND OTHER TOILET PREPARATIONS

This industry group includes establishments primarily engaged in manufacturing soap and other detergents and in producing glycerin from vegetable and animal fats and oils; specialty cleaning, polishing, and sanitation preparations; and surface active preparations used as emulsifiers, wetting agents, and finishing agents, including sulfonated oils; and perfumes, cosmetics, and other toilet preparations.

2841 Soap and Other Detergents, Except Specialty Cleaners

Establishments primarily engaged in manufacturing soap, synthetic organic detergents, inorganic alkaline detergents, or any combination thereof, and establishments producing crude and refined glycerin from vegetable and animal fats and oils. Establishments primarily engaged in manufacturing shampoos or shaving products, whether from soap or synthetic detergents, are classified in industry 2844; and those manufacturing synthetic glycerin are classified in industry 2869.

2842 Specialty Cleaning, Polishing, and Sanitation Preparations

Establishments primarily engaged in manufacturing furniture, metal, and other polishes; waxes and dressings for fabricated leather and other materials; household, institutional, and industrial plant disinfectants; nonpersonal deodorants; drycleaning preparations; household bleaches; and other sanitation preparations. Establishments primarily engaged in manufacturing industrial bleaches are classified in industry 2819, and those manufacturing household pesticidal preparations are classified in industry 2879.

2843 Surface Active Agents, Finishing Agents, Sulfonated Oils, and Assistants

Establishments primarily engaged in producing surface active preparations for use as wetting agents, emulsifiers, and penetrants. Establishments engaged in producing sulfonated oils and fats and related products are also included.

2844 Perfumes, Cosmetics, and Other Toilet Preparations

Establishments primarily engaged in manufacturing perfumes (natural and synthetic), cosmetics, and other toilet preparations. This industry also includes establishments primarily engaged in blending and compounding perfume bases; and those manufacturing shampoos and shaving products, whether from soap or synthetic detergents. Establishments primarily engaged in manufacturing synthetic perfume and flavoring materials are classified in industry 2869, and those manufacturing essential oils are classified in industry 2899.

285 PAINTS, VARNISHES, LACQUERS, ENAMELS, AND ALLIED PRODUCTS

2851 Paints, Varnishes, Lacquers, Enamels, and Allied Products

Establishments primarily engaged in manufacturing paints (in paste and ready-mixed form); varnishes; lacquers; enamels and shellac; putties, wood fillers, and sealers; paint and varnish removers; paint brush cleaners; and allied paint products. Establishments primarily engaged in manufacturing carbon black are classified in industry 2895; those manufacturing bone black, lamp black, and inorganic color pigments are classified in industry 2816; those manufacturing organic color pigments are classified in industry 2865; those manufacturing plastics materials are classified in industry 2821; those manufacturing printing ink are classified in industry 2893; those manufacturing caulking compounds and sealants are classified in industry 2891; those manufacturing artists' paints are classified in industry 3952; and those manufacturing turpentine are classified in industry 2861.

286 INDUSTRIAL ORGANIC CHEMICALS

Establishments primarily engaged in manufacturing industrial organic chemicals. Important products of this group include: (1) noncyclic organic chemicals, such as acetic, chloroacetic, adipic, formic, oxalic and tartaric acids, and their metallic salts; chloral, formaldehyde, and methylamine; (2) solvents such as amyl, butyl, and ethyl alcohols; methanol; amyl, butyl and ethyl acetates; ethyl ether, ethylene glycol ether, and diethylene glycol ether; acetone, carbon disulfide, and chlorinated solvents, such as carbon tetrachloride, perchloroethylene, and trichloroethylene; (3) polyhydric alcohols, such as ethylene glycol, sorbitol, pentaerythritol, synthetic glycerin; (4) synthetic perfume and flavoring materials, such as coumarin, methyl salicylate, saccharin, citral, citronellal, synthetic geraniol, ionone, terpeneol, and synthetic vanillin; (5) rubber processing chemicals, such as accelerators and antioxidants, both cyclic and acyclic; (6) plasticizers, both cyclic and acyclic, such as esters of phosphoric acid, phthalic anhydride, adipic acid, lauric acid, oleic acid, sebacic acid, and stearic acid; (7) synthetic tanning agents, such as naphthalene sulfonic acid condensates; (8) chemical warfare gases; (9) esters, amines, etc., of polyhydric alcohols and fatty and other acids; (10) cyclic crudes and intermediates; (11) cyclic dyes and organic pigments; and (12) natural gum and wood chemicals.

Establishments primarily engaged in manufacturing plastics materials and nonvulcanizable elastomers are classified in industry 2821; those manufacturing synthetic rubber are classified in industry 2822; those manufacturing essential oils are classified in industry 2899; those manufacturing rayon and other manmade fibers are classified in industries 2823 and 2824; those manufacturing specialty cleaning, polishing, and sanitation preparations are classified in industry 2842; those manufacturing paints are classified in industry 2851; and those manufacturing inorganic pigments are classified in industry 2816. Distillers engaged in the manufacture of grain alcohol for beverage purposes are classified in industry 2085.

2861 Gum and Wood Chemicals

Establishments primarily engaged in manufacturing hardwood and softwood distillation products, wood and gum naval stores, charcoal, natural dyestuffs, and natural tanning materials. Establishments primarily engaged in manufacturing synthetic organic tanning materials are classified in industry 2869, and those manufacturing synthetic organic dyes are classified in industry 2865.

2865 Cyclic Organic Crudes and Intermediates, and Organic Dyes and Pigments

Establishments primarily engaged in manufacturing cyclic organic crudes and intermediates, and organic dyes and pigments. Important products of this industry include: (1) aromatic chemicals, such as benzene, toluene, mixed xylenes naphthalene; (2) synthetic organic dyes; and (3)

synthetic organic pigments. Establishments primarily engaged in manufacturing coal tar crudes in chemical recovery ovens are classified in industry 3312, and petroleum refineries which produce such products as byproducts of petroleum refining are classified in industry 2911.

2869 Industrial Organic Chemicals, Not Elsewhere Classified

Establishments primarily engaged in manufacturing industrial organic chemicals, not elsewhere classified. Important products of this industry include: (1) aliphatic and other acyclic organic chemicals, such as ethylene, butylene, and butadiene; acetic, chloroacetic, adipic, formic, oxalic, and tartaric acids and their metallic salts; chloral, formaldehyde, and methylamine; (2) solvents, such as amyl, butyl, and ethyl alcohols; methanol; amyl, butyl, and ethyl acetates; ethyl ether, ethylene glycol ether, and diethylene glycol ether; acetone, carbon disulfide and chlorinated solvents, such as carbon tetrachloride, perchloroethylene, and trichloroethylene; (3) polyhydric alcohols, such as ethylene glycol, sorbitol, pentaerythritol, synthetic glycerin; (4) synthetic perfume and flavoring materials, such as coumarin, methyl salicylate, saccharin, citral, citronellal, synthetic geraniol, ionone, terpeneol, and synthetic vanillin; (5) rubber processing chemicals, such as accelerators and antioxidants, both cyclic and acyclic; (6) plasticizers, both cyclic and acyclic, such as esters of phosphoric acid, phthalic anhydride, adipic acid, lauric acid, oleic acid, sebacic acid, and stearic acid; (7) synthetic tanning agents, such as naphthalene sulfonic acid condensates; (8) chemical warfare gases; and (9) esters, amines, etc., of polyhydric alcohols and fatty and other acids.

Establishments primarily engaged in manufacturing plastics materials and nonvulcanizable elastomers are classified in industry 2821; those manufacturing synthetic rubber are classified in industry 2822; those manufacturing essential oils are classified in industry 2899; those manufacturing wood distillation products, naval stores and natural dyeing and tanning materials are classified in industry 2861; those manufacturing manmade textile fibers are classified in industries 2823 and 2824; those manufacturing specialty cleaning, polishing, and sanitation preparations are classified in industry 2842; those manufacturing paints are classified in industry 2851; those manufacturing urea are classified in industry 2873; those manufacturing organic pigments are classified in industry 2865; those manufacturing inorganic pigments are classified in industry 2816 and those manufacturing aliphatics and aromatics as byproducts of petroleum refining are classified in industry 2911. Distilleries engaged in the manufacture of grain alcohol for beverage purposes are classified in industry 2085.

287 AGRICULTURAL CHEMICALS

This group includes establishments primarily engaged in manufacturing nitrogenous and phosphatic basic fertilizers, mixed fertilizers, pesticides, and other agricultural

chemicals. Establishments primarily engaged in manufacturing basic chemicals, which require further processing or formulation before use as agricultural pest control agents, are classified in industry groups 281 or 286.

2873 Nitrogenous Fertilizers

Establishments primarily engaged in manufacturing nitrogenous fertilizer materials or mixed fertilizers from nitrogenous materials produced in the same establishment. Included are ammonia fertilizer compounds and anhydrous ammonia, nitric acid, ammonium nitrate, ammonium sulfate and nitrogen solutions, urea, and natural organic fertilizers (except compost) and mixtures.

2874 Phosphatic Fertilizers

Establishments primarily engaged in manufacturing phosphatic fertilizer materials, or mixed fertilizers from phosphatic materials produced in the same establishment. Included are phosphoric acid; normal, enriched, and concentrated superphosphates; ammonium phosphates; nitrophosphates; and calcium meta-phosphates.

2875 Fertilizers, Mixing Only

Establishments primarily engaged in mixing fertilizers from purchased fertilizer materials.

2879 Pesticides and Agricultural Chemicals, Not Elsewhere Classified

Establishments primarily engaged in the formulation and preparation of ready-to-use agricultural and household pest control chemicals, including insecticides, fungicides, and herbicides, from technical chemicals or concentrates; and the production of concentrates which require further processing before use as agricultural pesticides. This industry also includes establishments primarily engaged in manufacturing or formulating agricultural chemicals, not elsewhere classified, such as minor or trace elements and soil conditioners. Establishments primarily engaged in manufacturing basic or technical agricultural pest control chemicals are classified in industry group 281 if the chemicals are inorganic and in industry group 286 if they are organic. Establishments primarily engaged in manufacturing agricultural lime products are classified in major group 32.

289 MISCELLANEOUS CHEMICAL PRODUCTS

2891 Adhesives and Sealants

Establishments primarily engaged in manufacturing industrial and household adhesives, glues, caulking compounds, sealants, and linoleum, tile, and rubber cements from vegetable, animal, or synthetic plastics materials, purchased or produced in the same establishment. Establishments primarily engaged in manufacturing gelatin and sizes are classified in industry 2899, and those manufacturing vegetable gelatin or agar-agar are classified in industry 2833.

2892 Explosives

Establishments primarily engaged in manufacturing explosives. Establishments primarily engaged in manufacturing ammunition for small arms are classified in industry 3482, and those manufacturing fireworks are classified in industry 2899.

2893 Printing Ink

Establishments primarily engaged in manufacturing printing ink, including gravure ink, screen process ink, and lithographic ink. Establishments primarily engaged in manufacturing writing ink and fluids are classified in industry 2899, and those manufacturing drawing ink are classified in industry 3952.

2895 Carbon Black

Establishments primarily engaged in manufacturing carbon black (channel and furnace black). Establishments primarily engaged in manufacturing bone and lamp black are classified in industry 2816.

2899 Chemicals and Chemical Preparations, Not Elsewhere Classified

Establishments primarily engaged in manufacturing miscellaneous chemical preparations, not elsewhere classified, such as fatty acids, essential oils, gelatin (except vegetable), sizes, bluing, laundry soaps, writing and stamp pad ink, industrial compounds, such as boiler and heat insulating compounds, metal, oil, and water treating compounds, water-proofing compounds, and chemical supplies for foundries. Establishments primarily engaged in manufacturing vegetable gelatin (agar-agar) are classified in industry 2833; those manufacturing dessert preparations based on gelatin are classified in industry 2099; those manufacturing printing ink are classified in industry 2893; and those manufacturing drawing ink are classified in industry 3952.

29 PETROLEUM REFINING AND RELATED INDUSTRIES

This major group includes establishments primarily engaged in petroleum refining, manufacturing paving and roofing materials, and compounding lubricating oils and greases from purchased materials. Establishments manufacturing and distributing gas to consumers are classified in public utilities industries, and those primarily engaged in producing coke and byproducts are classified in major group 33.

291 PETROLEUM REFINING

2911 Petroleum Refining

Establishments primarily engaged in producing gasoline, kerosene, distillate fuel oils, residual fuel oils, and lubricants, through fractionation or straight distillation of

crude oil, redistillation of unfinished petroleum derivatives, cracking or other processes. Establishments of this industry also produce aliphatic and aromatic chemicals as byproducts. Establishments primarily engaged in producing natural gasoline from natural gas are classified in mining industries. Those manufacturing lubricating oils and greases by blending and compounding purchased materials are included in industry 2992. Establishments primarily re-refining used lubricating oils are classified in industry 2992. Establishments primarily engaged in manufacturing cyclic and acyclic organic chemicals are classified in major group 28.

295 ASPHALT PAVING AND ROOFING MATERIALS

2951 Asphalt Paving Mixtures and Blocks

Establishments primarily engaged in manufacturing asphalt and tar paving mixtures; and paving blocks made of asphalt and various compositions of asphalt or tar with other materials. Establishments primarily engaged in manufacturing brick, concrete, granite, and stone paving blocks are classified in major group 32.

2952 Asphalt Felts and Coatings

Establishments primarily engaged in manufacturing, from purchased materials, asphalt and other saturated felts in roll or shingle form, either smooth or faced with grit, and in manufacturing roofing cements and coatings. Establishments primarily engaged in manufacturing paint are classified in industry 2851, and those manufacturing linoleum and tile cement are classified in industry 2891.

299 MISCELLANEOUS PRODUCTS OF PETROLEUM AND COAL

2992 Lubricating Oils and Greases

Establishments primarily engaged in blending, compounding, and re-refining lubricating oils and greases from purchased mineral, animal, and vegetable materials. Petroleum refineries engaged in the production of lubricating oils and greases are classified in industry 2911.

2999 Products of Petroleum and Coal, Not Elsewhere Classified

Establishments primarily engaged in manufacturing packaged fuel, powdered fuel, and other products of petroleum and coal, not elsewhere classified.

30 RUBBER AND MISCELLANEOUS PLASTICS PRODUCTS

This major group includes establishments manufacturing products, not elsewhere classified, from plastics resins and from natural, synthetic, or reclaimed rubber, gutta

percha, balata, or gutta siak. Numerous products made from these materials are included in other major groups, such as boats in major group 37, and toys, buckles, and buttons in major group 39. This group includes establishments primarily manufacturing tires, but establishments primarily recapping and retreading automobile tires are classified in Services, industry 7534. Establishments primarily engaged in manufacturing synthetic rubber and synthetic plastics resins are classified in industry group 282.

301 TIRES AND INNER TUBES

3011 Tires and Inner Tubes

Establishments primarily engaged in manufacturing pneumatic casings, inner tubes, and solid and cushion tires for all types of vehicles, airplanes, farm equipment, and children's vehicles; tiring; camelback; and tire repair and retreading materials. Establishments primarily engaged in retreading tires are classified in Services, industry 7534.

302 RUBBER AND PLASTICS FOOTWEAR

3021 Rubber and Plastics Footwear

Establishments primarily engaged in manufacturing fabric upper footwear having rubber or plastics soles vulcanized, injection molded, or cemented to the uppers, and rubber and plastics protective footwear. Establishments primarily engaged in manufacturing rubber, composition, and fiber heels, soles, soling strips, and related shoe making and repairing materials are classified in industry 3069; those manufacturing plastics soles and soling strips are classified in industry 3089; and those manufacturing other footwear of rubber or plastics are classified in industry group 314.

305 GASKETS, PACKING, AND SEALING DEVICES AND RUBBER AND PLASTICS HOSE AND BELTING

3052 Rubber and Plastics Hose and Belting

Establishments primarily engaged in manufacturing rubber and plastics hose and belting, including garden hose. Establishments primarily engaged in manufacturing rubber tubing are classified in industry group 306; those manufacturing plastics tubing are classified in industry 3082; and those manufacturing flexible metallic hose are classified in industry 3599.

3053 Gaskets, Packing, and Sealing Devices

Establishments primarily engaged in manufacturing gaskets, gasketing materials, compression packings, mold packings, oil seals, and mechanical seals. Included are gaskets, packing, and sealing devices made of leather, rubber, metal, asbestos, and plastics.

306 FABRICATED RUBBER PRODUCTS, NOT ELSEWHERE CLASSIFIED

3061 Molded, Extruded, and Lathe-Cut Mechanical Rubber Goods

Establishments primarily engaged in manufacturing molded, extruded, and lathe-cut mechanical rubber goods. The products are generally parts for machinery and equipment. Establishments primarily engaged in manufacturing other industrial rubber goods, rubberized fabric, and miscellaneous rubber specialties and sundries are classified in industry 3069.

3069 Fabricated Rubber Products, Not Elsewhere Classified

Establishments primarily engaged in manufacturing industrial rubber goods, rubberized fabrics, and vulcanized rubber clothing, and miscellaneous rubber specialties and sundries, not elsewhere classified. Included in this industry are establishments primarily engaged in reclaiming rubber and rubber articles. Establishments primarily engaged in the wholesale distribution of scrap rubber are classified in Wholesale Trade, industry 5093. Establishments primarily engaged in rebuilding and retreading tires are classified in Services, industry 7534; those manufacturing rubberized clothing from purchased materials are classified in industry 2385; and those manufacturing gaskets and packing are classified in industry 3053.

308 MISCELLANEOUS PLASTICS PRODUCTS

3081 Unsupported Plastics Film and Sheet

Establishments primarily engaged in manufacturing unsupported plastics film and sheet, from purchased resins or from resins produced in the same plant. Establishments primarily engaged in manufacturing plastics film and sheet for blister and bubble formed packaging are classified in industry 3089.

3082 Unsupported Plastics Profile Shapes

Establishments primarily engaged in manufacturing unsupported plastics profiles, rods, tubes, and other shapes. Establishments primarily engaged in manufacturing plastics hose are classified in industry 3052.

3083 Laminated Plastics Plate, Sheet, and Profile Shapes

Establishments primarily engaged in manufacturing laminated plastics plate, sheet, profiles, rods, and tubes. Establishments primarily engaged in manufacturing laminated flexible packaging are classified in industry group 267.

3084 Plastics Pipe

Establishments primarily engaged in manufacturing plastics pipe. Establishments primarily engaged in manufacturing plastics pipe fittings are classified in industry 3089.

3085 Plastics Bottles

Establishments primarily engaged in manufacturing plastics bottles.

3086 Plastics Foam Products

Establishments primarily engaged in manufacturing plastics foam products.

3087 Custom Compounding of Purchased Plastics Resins

Establishments primarily engaged in custom compounding of purchased plastics resins.

3088 Plastics Plumbing Fixtures

Establishments primarily engaged in manufacturing plastics plumbing fixtures. Establishments primarily engaged in assembling plastics plumbing fixture fittings are classified in industry 3432. Establishments primarily engaged in manufacturing plastics plumbing fixture components are classified in industry 3089.

3089 Plastics Products, Not Elsewhere Classified

Establishments primarily engaged in manufacturing plastics products, not elsewhere classified. Establishments primarily engaged in manufacturing artificial leather are classified in industry 2295.

31 LEATHER AND LEATHER PRODUCTS

This major group includes establishments engaged in tanning, currying, and finishing hides and skins, leather converters, and establishments manufacturing finished leather and artificial leather products and some similar products made of other materials.

311 LEATHER TANNING AND FINISHING

3111 Leather Tanning and Finishing

Establishments primarily engaged in tanning, currying, and finishing hides and skins into leather. This industry also includes leather converters, who buy hides and skins and have them processed into leather on a contract basis by others.

313 BOOT AND SHOE CUT STOCK AND FINDINGS

3131 Boot and Shoe Cut Stock and Findings

Establishments primarily engaged in manufacturing leather soles, inner soles, and other boot and shoe cut stock and findings. This industry also includes finished wood heels. Establishments primarily engaged in manufacturing heels, soling strips, and soles made of rubber, composition, plastics, and fiber are classified in major group 30.

314 FOOTWEAR, EXCEPT RUBBER

3142 House Slippers

Establishments primarily engaged in manufacturing house slippers of leather or other materials.

3143 Men's Footwear, Except Athletic

Establishments primarily engaged in the production of men's footwear designed primarily for dress, street, and work. Establishments primarily engaged in the production of such protective footwear as rubbers, rubber boots, storm shoes, galoshes, and other footwear with rubber soles vulcanized to the uppers are classified in industry 3021. Establishments primarily engaged in the production of athletic shoes and youths' and boys' shoes are classified in industry 3149, and those manufacturing orthopedic extension shoes are classified in industry 3842.

3144 Women's Footwear, Except Athletic

Establishments primarily engaged in the production of women's footwear designed primarily for dress, street, and work. Establishments primarily engaged in the production of athletic shoes and misses', children's, infants', and babies' footwear are classified in industry 3149. Establishments primarily engaged in the production of rubber or plastics footwear are classified in industry 3021, and those manufacturing orthopedic extension shoes are classified in industry 3842.

3149 Footwear, Except Rubber, Not Elsewhere Classified

Establishments primarily engaged in the production of shoes, not elsewhere classified, such as misses', youths', boys', children's, and infants' footwear and athletic footwear. Establishments primarily engaged in the production of rubber or plastics footwear are classified in industry 3021, and those manufacturing orthopedic extension shoes are classified in industry 3842.

315 LEATHER GLOVES AND MITTENS

3151 Leather Gloves and Mittens

Establishments primarily engaged in manufacturing dress, semidress, and work gloves exclusively of leather or leather with lining of other material. Establishments primarily engaged in manufacturing sporting and athletic gloves

are classified in industry 3949; those manufacturing dress, semidress, and work gloves and mittens of cloth or cloth and leather combined are classified in industry 2381; and those manufacturing safety gloves are classified in industry 3842.

316 LUGGAGE

3161 Luggage

Establishments primarily engaged in manufacturing luggage of leather or other materials.

317 HANDBAGS AND OTHER PERSONAL LEATHER GOODS

3171 Women's Handbags and Purses

Establishments primarily engaged in manufacturing women's handbags and purses of leather or other materials, except precious metal. Establishments primarily engaged in manufacturing precious metal handbags and purses are classified in industry 3911.

3172 Personal Leather Goods, Except Women's Handbags and Purses

Establishments primarily engaged in manufacturing small articles normally carried on the person or in a handbag, such as billfolds, key cases, and coin purses of leather or other materials, except precious metal. Establishments primarily engaged in manufacturing similar personal goods of precious metals are classified in industry 3911.

319 LEATHER GOODS, NOT ELSEWHERE CLASSIFIED

3199 Leather Goods, Not Elsewhere Classified

Establishments primarily engaged in manufacturing leather goods, not elsewhere classified, such as saddlery, harnesses, whips, embossed leather goods, leather desk sets, razor strops, and leather belting. Establishments primarily engaged in manufacturing gaskets and packing are classified in industry 3053. Establishments primarily engaged in manufacturing leather and sheep-lined clothing are classified in industry 2386.

32 STONE, CLAY, GLASS, AND CONCRETE PRODUCTS

This major group includes establishments engaged in manufacturing flat glass and other glass products, cement, structural clay products, pottery, concrete and gypsum products, cut stone, abrasive and asbestos products, and other products from materials taken principally from the earth in the form of stone, clay, and sand. When separate reports are available for mines and quarries operated by

manufacturing establishments classified in this major group, the mining and quarrying activities are classified in Division B, Mining. When separate reports are not available, the mining and quarrying activities, other than those of industry 3295, are classified herein with the manufacturing operations.

If separate reports are not available for crushing, grinding, and other preparation activities of industry 3295, these establishments are classified in Division B, Mining.

321 FLAT GLASS

3211 Flat Glass

Establishments primarily engaged in manufacturing flat glass. This industry also produces laminated glass, but establishments primarily engaged in manufacturing laminated glass from purchased flat glass are classified in industry 3231.

322 GLASS AND GLASSWARE, PRESSED OR BLOWN

This group includes establishments primarily engaged in manufacturing glass and glassware, pressed, blown, or shaped from glass produced in the same establishment. Establishments primarily engaged in manufacturing glass products made from purchased glass are classified in industry 3231.

3221 Glass Containers

Establishments primarily engaged in manufacturing glass containers for commercial packing and bottling, and for home canning.

3229 Pressed and Blown Glass and Glassware, Not Elsewhere Classified

Establishments primarily engaged in manufacturing glass and glassware, not elsewhere classified, pressed, blown, or shaped from glass produced in the same establishment. Establishments primarily engaged in manufacturing textile glass fibers are also included in this industry, but establishments primarily engaged in manufacturing glass wool insulation products are classified in industry 3296. Establishments primarily engaged in manufacturing fiber optic cables are classified in industry 3357, and those manufacturing fiber optic medical devices are classified in industry group 384. Establishments primarily engaged in the production of pressed lenses for vehicular lighting, beacons, and lanterns are also included in this industry, but establishments primarily engaged in the production of optical lenses are classified in industry 3827. Establishments primarily engaged in manufacturing glass containers are classified in industry 3221, and those manufacturing complete electric light bulbs are classified in industry 3641.

323 GLASS PRODUCTS, MADE OF PURCHASED GLASS

3231 Glass Products, Made of Purchased Glass

Establishments primarily engaged in manufacturing glass products from purchased glass. Establishments primarily engaged in manufacturing optical lenses, except ophthalmic, are classified in industry 3827, and those manufacturing ophthalmic lenses are classified in industry 3851.

324 CEMENT, HYDRAULIC

3241 Cement, Hydraulic

Establishments primarily engaged in manufacturing hydraulic cement, including portland, natural, masonry, and pozzolana cements.

325 STRUCTURAL CLAY PRODUCTS

3251 Brick and Structural Clay Tile

Establishments primarily engaged in manufacturing brick and structural clay tile. Establishments primarily engaged in manufacturing clay firebrick are classified in industry 3255; those manufacturing nonclay firebrick are classified in industry 3297; those manufacturing sand lime brick are classified in industry 3299; and those manufacturing glass brick are classified in industry 3229.

3253 Ceramic Wall and Floor Tile

Establishments primarily engaged in manufacturing ceramic wall and floor tile. Establishments primarily engaged in manufacturing structural clay tile are classified in industry 3251, and those manufacturing drain tile are classified in industry 3259.

3255 Clay Refractories

Establishments primarily engaged in manufacturing clay firebrick and other heat resisting clay products. Establishments primarily engaged in manufacturing nonclay refractories and all graphite refractories, whether of carbon bond or ceramic bond, are classified in industry 3297.

3259 Structural Clay Products, Not Elsewhere Classified

Establishments primarily engaged in manufacturing clay sewer pipe and structural clay products, not elsewhere classified.

326 POTTERY AND RELATED PRODUCTS

3261 Vitreous China Plumbing Fixtures and China and Earthenware Fittings and Bathroom Accessories

Establishments primarily engaged in manufacturing vitreous china plumbing fixtures and china and earthenware fittings and bathroom accessories.

3262 Vitreous China Table and Kitchen Articles

Establishments primarily engaged in manufacturing vitreous china table and kitchen articles for use in households and in hotels, restaurants, and other commercial institutions for preparing, serving, or storing food or drink. Establishments primarily engaged in manufacturing fine (semivitreous) earthenware (whiteware) table and kitchen articles are classified in industry 3263.

3263 Fine Earthenware (Whiteware) Table and Kitchen Articles

Establishments primarily engaged in manufacturing fine (semivitreous) earthenware table and kitchen articles for preparing, serving, or storing food or drink. Establishments primarily engaged in manufacturing vitreous china table and kitchen articles are classified in industry 3262.

3264 Porcelain Electrical Supplies

Establishments primarily engaged in manufacturing porcelain electronic and other electrical insulators, molded porcelain parts for electrical devices, spark plug and steatitic porcelain, and electronic and electrical supplies from clay and other ceramic materials.

3269 Pottery Products, Not Elsewhere Classified

Establishments primarily engaged in firing and decorating white china and earthenware for the trade and manufacturing art and ornamental pottery, industrial and laboratory pottery, stoneware and coarse earthenware table and kitchen articles, unglazed red earthenware florists' articles, and other pottery products, not elsewhere classified.

327 CONCRETE, GYPSUM, AND PLASTER PRODUCTS

3271 Concrete Block and Brick

Establishments primarily engaged in manufacturing concrete building block and brick from a combination of cement and aggregate. Contractors engaged in concrete construction work are classified in Division C, Construction, and establishments primarily engaged in mixing and delivering ready-mixed concrete are classified in industry 3273.

3272 Concrete Products, Except Block and Brick

Establishments primarily engaged in manufacturing concrete products, except block and brick, from a combination of cement and aggregate. Contractors engaged in concrete construction work are classified in Division C, Construction, and establishments primarily engaged in mixing and delivering ready-mixed concrete are classified in industry 3273.

3273 Ready-Mixed Concrete

Establishments primarily engaged in manufacturing portland cement concrete manufactured and delivered to a purchaser in a plastic and unhardened state. This industry includes production and sale of central-mixed concrete, shrink-mixed concrete, and truck-mixed concrete.

3274 Lime

Establishments primarily engaged in manufacturing quicklime, hydrated lime, and "dead-burned" dolomite from limestone, dolomite shells, or other substances.

3275 Gypsum Products

Establishments primarily engaged in manufacturing plaster, plasterboard, and other products composed wholly or chiefly of gypsum, except articles of plaster of paris and papier-mache.

328 CUT STONE AND STONE PRODUCTS

3281 Cut Stone and Stone Products

Establishments primarily engaged in cutting, shaping, and finishing granite, marble, limestone, slate, and other stone for building and miscellaneous uses. Establishments primarily engaged in buying or selling partly finished monuments and tombstones, but performing no work on the stones other than lettering, finishing, or shaping to custom order, are classified in Division F, Wholesale Trade or Division G, Retail Trade. The cutting of grindstones, pulpstones, and whetstones at the quarry is classified in Division B, Mining.

329 ABRASIVE, ASBESTOS, AND MISCELLANEOUS NONMETALLIC MINERAL PRODUCTS

3291 Abrasive Products

Establishments primarily engaged in manufacturing abrasive grinding wheels of natural or synthetic materials, abrasive-coated products, and other abrasive products. The cutting of grindstones, pulpstones, and whetstones at the quarry is classified in Division B, Mining .

3292 Asbestos Products

Establishments primarily engaged in manufacturing asbestos textiles, asbestos building materials, except asbestos paper, insulating materials for covering boilers and pipes, and other products composed wholly or chiefly of asbestos. Establishments primarily engaged in manufacturing asbestos paper are classified in industry 2621, and those manufacturing gaskets and packing are classified in industry 3053.

3295 Minerals and Earths, Ground or Otherwise Treated

Establishments operating without a mine or quarry and primarily engaged in crushing, grinding, pulverizing, or otherwise preparing clay, ceramic, and refractory minerals; barite; and miscellaneous nonmetallic minerals, except fuels. These minerals are the crude products mined by establishments of industry groups 145 and 149, and by those of industry 1479 mining barite. Also included are establishments primarily crushing slag and preparing roofing granules. The beneficiation or preparation of other minerals and metallic ores, and the cleaning and grading of coal, are classified in Division B, Mining, whether or not the operation is associated with a mine.

3296 Mineral Wool

Establishments primarily engaged in manufacturing mineral wool and mineral wool insulation products made of such siliceous materials as rock, slag, and glass, or combinations thereof. Establishments primarily engaged in manufacturing asbestos insulation products are classified in industry 3292, and those manufacturing textile glass fibers are classified in industry 3229.

3297 Nonclay Refractories

Establishments primarily engaged in manufacturing refractories and crucibles made of materials other than clay. This industry includes establishments primarily engaged in manufacturing all graphite refractories, whether of carbon bond or ceramic bond. Establishments primarily engaged in manufacturing clay refractories are classified in industry 3255.

3299 Nonmetallic Mineral Products, Not Elsewhere Classified

Establishments primarily engaged in the factory production of goods made of plaster of paris and papier-mache, and in manufacturing sand lime products and other non-metallic mineral products, not elsewhere classified.

33 PRIMARY METAL INDUSTRIES

This major group includes establishments engaged in smelting and refining ferrous and nonferrous metals from ore, pig, or scrap; in rolling, drawing, and alloying metals; in manufacturing castings and other basic metal products; and in manufacturing nails, spikes, and insulated wire and cable. This major group includes the production of coke. Establishments primarily engaged in manufacturing metal forgings or stampings are classified in industry group 346.

331 STEEL WORKS, BLAST FURNACES, AND ROLLING AND FINISHING MILLS

3312 Steel Works, Blast Furnaces (Including Coke Ovens), and Rolling Mills

Establishments primarily engaged in manufacturing hot metal, pig iron, and silvery pig iron from iron ore and iron and steel scrap; converting pig iron, scrap iron, and scrap

steel into steel; and in hot-rolling iron and steel into basic shapes, such as plates, sheets, strips, rods, bars, and tubing. Merchant blast furnaces and byproduct or beehive coke ovens are also included in this industry. Establishments primarily engaged in manufacturing ferro and non-ferrous additive alloys by electrometallurgical processes are classified in industry 3313.

3313 Electrometallurgical Products, Except Steel

Establishments primarily engaged in manufacturing ferro and nonferrous metal additive alloys by electrometallurgical or metallothermic processes, including high percentage ferroalloys and high percentage nonferrous additive alloys. Establishments primarily engaged in manufacturing electrometallurgical steel are classified in industry 3312.

3315 Steel Wiredrawing and Steel Nails and Spikes

Establishments primarily engaged in drawing wire from purchased iron or steel rods, bars, or wire and which may be engaged in the further manufacture of products made from wire; establishments primarily engaged in manufacturing steel nails and spikes from purchased materials are also included in this industry. Rolling mills engaged in the production of ferrous wire from wire rods or hot-rolled bars produced in the same establishment are classified in industry 3312. Establishments primarily engaged in drawing nonferrous wire are classified in industry group 335.

3316 Cold-Rolled Steel Sheet, Strip, and Bars

Establishments primarily engaged in: (1) cold-rolling steel sheets and strip from purchased hot-rolled sheets; (2) cold-drawing steel bars and steel shapes from purchased hot-rolled steel bars; and (3) producing other cold finished steel. Establishments primarily engaged in the production of steel, including hot-rolled steel sheets, and further cold-rolling such sheets are classified in industry 3312.

3317 Steel Pipe and Tubes

Establishments primarily engaged in the production of welded or seamless steel pipe and tubes and heavy riveted steel pipe from purchased materials. Establishments primarily engaged in the production of steel, including steel skelp or steel blanks, tube rounds, or pierced billets, are classified in industry 3312.

332 IRON AND STEEL FOUNDRIES

This industry group includes establishments primarily engaged in manufacturing iron and steel castings. These establishments generally operate on a job or order basis, manufacturing castings for sale to others or for interplant transfer. Establishments which produce iron and steel

castings and which are also engaged in fabricating operations, such as machining and assembling, in manufacturing a specified product are classified in the industry of the specified product. Iron and steel castings are made, to a considerable extent, by establishments that are classified in other industries and that operate foundry departments for the production of castings for incorporation, in the same establishment, into such products as stoves, furnaces, plumbing fixtures, and motor vehicles. Establishments primarily engaged in the manufacture and rolling of steel and also making steel castings are classified in industry 3312. Establishments primarily engaged in manufacturing nonferrous castings are classified in industry group 336.

3321 Gray and Ductile Iron Foundries

Establishments primarily engaged in manufacturing gray and ductile iron castings, including cast iron pressure and soil pipes and fittings.

3322 Malleable Iron Foundries

Establishments primarily engaged in manufacturing malleable iron castings.

3324 Steel Investment Foundries

Establishments primarily engaged in manufacturing steel investment castings.

3325 Steel Foundries, Not Elsewhere Classified

Establishments primarily engaged in manufacturing steel castings, not elsewhere classified.

333 PRIMARY SMELTING AND REFINING OF NONFERROUS METALS

3331 Primary Smelting and Refining of Copper

Establishments primarily engaged in smelting copper from the ore, and in refining copper by electrolytic or other processes. Establishments primarily engaged in rolling, drawing, or extruding copper are classified in industry 3351.

3334 Primary Production of Aluminum

Establishments primarily engaged in producing aluminum from alumina and in refining aluminum by any process. Establishments primarily engaged in rolling, drawing, or extruding aluminum are classified in industry group 335.

3339 Primary Smelting and Refining of Nonferrous Metals, Except Copper and Aluminum

Establishments primarily engaged in smelting and refining nonferrous metals, except copper and aluminum. Establishments primarily engaged in rolling, drawing, and extruding these nonferrous primary metals are classified in industry 3356, and the production of bullion at the site of the mine is classified in Division B, Mining.

334 SECONDARY SMELTING AND REFINING OF NONFERROUS METALS

3341 Secondary Smelting and Refining of Nonferrous Metals

Establishments primarily engaged in recovering nonferrous metals and alloys from new and used scrap and dross or in producing alloys from purchased refined metals. This industry includes establishments engaged in both the recovery and alloying of precious metals. Plants engaged in the recovery of tin through secondary smelting and refining, as well as by chemical processes, are included in this industry. Establishments primarily engaged in assembling, sorting, and breaking up scrap metal, without smelting and refining, are classified in Wholesale Trade, industry 5093.

335 ROLLING, DRAWING, AND EXTRUDING OF NONFERROUS METALS

3351 Rolling, Drawing, and Extruding of Copper

Establishments primarily engaged in rolling, drawing, and extruding copper, brass, bronze, and other copper base alloy basic shapes, such as plate, sheet, strip, bar, and tubing. Establishments primarily engaged in recovering copper and its alloys from scrap or dross are classified in industry 3341.

3353 Aluminum Sheet, Plate, and Foil

Establishments primarily engaged in flat rolling aluminum and aluminum-base alloy basic shapes, such as sheet, plate, and foil, including establishments producing welded tube. Also included are establishments primarily producing similar products by continuous casting.

3354 Aluminum Extruded Products

Establishments primarily engaged in extruding aluminum and aluminum-base alloy basic shapes, such as rod and bar, pipe and tube, and tube blooms, including establishments producing tube by drawing.

3355 Aluminum Rolling and Drawing, Not Elsewhere Classified

Establishments primarily engaged in rolling, drawing, and other operations resulting in the production of aluminum ingot, including extrusion ingot, and aluminum and aluminum-base alloy basic shapes, not elsewhere classified, such as rolled and continuous cast rod and bar. Establishments primarily engaged in producing aluminum powder, flake, and paste are classified in industry 3399, and those producing aluminum wire and cable from purchased wire bars, rods, or wire are classified in industry 3357.

3356 Rolling, Drawing, and Extruding of Nonferrous Metals, Except Copper and Aluminum

Establishments primarily engaged in rolling, drawing, and extruding nonferrous metals other than copper and aluminum. The products of this industry are in the form of basic shapes, such as plate, sheet, strip, bar, and tubing. Establishments primarily engaged in recovering nonferrous metals and alloys from scrap or dross are classified in industry 3341; those manufacturing gold, silver, tin, and other foils, except aluminum, are classified in industry 3497; and those manufacturing aluminum foil are classified in industry 3353.

3357 Drawing and Insulating of Nonferrous Wire

Establishments primarily engaged in drawing, drawing and insulating, and insulating wire and cable of nonferrous metals from purchased wire bars, rods, or wire. Also included are establishments primarily engaged in manufacturing insulated fiber optic cable. Establishments primarily engaged in manufacturing glass fiber optic materials are classified in industry 3229, and those manufacturing fabricated wire products from purchased wire are classified in industry 3496.

336 NONFERROUS FOUNDRIES (CASTINGS)

This industry group includes establishments primarily engaged in manufacturing castings and die-castings of aluminum, brass, bronze, and other nonferrous metals and alloys. These establishments generally operate on a job or order basis, manufacturing castings for sale to others or for interplant transfer. Establishments which produce nonferrous castings and which are also engaged in fabricating operations, such as machining and assembling, in manufacturing a specified product are classified in the industry of the specified product. Nonferrous castings are made to a considerable extent by establishments classified in other industries that operate foundry departments for the production of castings for incorporation, in the same establishment, into such products as machinery and motor vehicles. Establishments primarily engaged in manufacturing iron and steel castings are classified in industry group 332.

3363 Aluminum Die-Castings

Establishments primarily engaged in manufacturing die-castings of aluminum (including alloys).

3364 Nonferrous Die-Castings, Except Aluminum

Establishments primarily engaged in manufacturing nonferrous metal die-castings, except aluminum.

3365 Aluminum Foundries

Establishments primarily engaged in manufacturing aluminum (including alloys) castings, except die-castings.

3366 Copper Foundries

Establishments primarily engaged in manufacturing copper (including alloys) castings, except die-castings.

3369 Nonferrous Foundries, Except Aluminum and Copper

Establishments primarily engaged in manufacturing nonferrous metal castings (including alloys), except all die-castings and other castings of aluminum or copper.

339 MISCELLANEOUS PRIMARY METAL PRODUCTS

3398 Metal Heat Treating

Establishments primarily engaged in heat treating of metal for the trade.

3399 Primary Metal Products, Not Elsewhere Classified

Establishments primarily engaged in manufacturing primary metal products, not elsewhere classified, such as nonferrous nails, brads, and spikes, and metal powder, flakes, and paste.

34 FABRICATED METAL PRODUCTS, EXCEPT MACHINERY AND TRANSPORTATION EQUIPMENT

This major group includes establishments engaged in fabricating ferrous and nonferrous metal products, such as metal cans, tinware, handtools, cutlery, general hardware, nonelectric heating apparatus, fabricated structural metal products, metal forgings, metal stampings, ordnance (except vehicles and guided missiles), and a variety of metal and wire products, not elsewhere classified. Certain important segments of the metal fabricating industries are classified in other major groups, such as machinery in major groups 35 and 36; transportation equipment, including tanks, in major group 37; professional scientific and controlling instruments, watches, and clocks in major group 38; and jewelry and silverware in major group 39. Establishments primarily engaged in producing ferrous and nonferrous metals and their alloys are classified in major group 33.

341 METAL CANS AND SHIPPING CONTAINERS

3411 Metal Cans

Establishments primarily engaged in manufacturing metal cans from purchased materials. Establishments primarily engaged in manufacturing foil containers are classified in industry 3497.

3412 Metal Shipping Barrels, Drums, Kegs, and Pails

Establishments primarily engaged in manufacturing metal shipping barrels, drums, kegs, and pails.

342 CUTLERY, HANDTOOLS, AND GENERAL HARDWARE

3421 Cutlery

Establishments primarily engaged in manufacturing safety razors, razor blades, scissors, shears, and other cutlery of metal, except precious metal and table cutlery with handles of metal. Establishments primarily engaged in manufacturing precious metal cutlery and table cutlery with handles of metal are classified in industry 3914; those manufacturing electric razors, knives, or scissors are classified in industry 3634; those manufacturing hair clippers for human use are classified in industry 3999 and for animal use in industry 3523; and those manufacturing power hedge shears and trimmers are classified in industry 3524.

3423 Hand and Edge Tools, Except Machine Tools and Handsaws

Establishments primarily engaged in manufacturing files and other hand and edge tools for metalworking, wood-working, and general maintenance. Establishments primarily engaged in manufacturing handsaws and saw blades are classified in industry 3425; and those manufacturing metal cutting dies, power driven handtools, and attachments and accessories for machine tools are classified in major group 35.

3425 Saw Blades and Handsaws

Establishments primarily engaged in manufacturing hand-saws and saw blades for hand and power driven saws. Establishments primarily engaged in manufacturing power driven sawing machines are classified in major group 35.

3429 Hardware, Not Elsewhere Classified

Establishments primarily engaged in manufacturing miscellaneous metal products usually termed hardware, not elsewhere classified. Establishments primarily engaged in manufacturing bolts and nuts are classified in industry 3452; those manufacturing nails and spikes are classified in major group 33; those manufacturing cutlery are classified in industry 3421; those manufacturing handtools are classified in industry 3423; and those manufacturing pole line and transmission hardware are classified in industry group 364.

343 HEATING EQUIPMENT, EXCEPT ELECTRIC AND WARM AIR; AND PLUMBING FIXTURES

3431 Enameled Iron and Metal Sanitary Ware

Establishments primarily engaged in manufacturing enameled iron, cast iron, or pressed metal sanitary ware.

Establishments primarily engaged in manufacturing plastics plumbing fixtures are classified in industry 3088; those manufacturing vitreous and semivitreous pottery sanitary ware are classified in industry 3261; and those manufacturing porcelain enameled kitchen, household, and hospital ware are classified in industry 3469.

3432 Plumbing Fixture Fittings and Trim

Establishments primarily engaged in manufacturing metal plumbing fixture fittings and trim. Also included in this industry are establishments engaged in the assembly of plastics components into plumbing fixture fittings. Establishments primarily engaged in the manufacture of stream or water line valves are classified in industry group 349. Establishments primarily engaged in manufacturing china and earthenware plumbing fixture fittings are classified in industry 3261, and those manufacturing plastics plumbing fixture components are classified in industry 3089.

3433 Heating Equipment, Except Electric and Warm Air Furnaces

Establishments primarily engaged in manufacturing heating equipment, except electric and warm air furnaces, including gas, oil, and stoker coal fired equipment for the automatic utilization of gaseous, liquid, and solid fuels. Establishments primarily engaged in manufacturing warm air furnaces are classified in industry 3585; cooking stoves and ranges are classified in industry 3631; boiler shops primarily engaged in the production of industrial, power, and marine boilers are classified in industry 3443; and those manufacturing industrial process furnaces and ovens are classified in industry 3567.

344 FABRICATED STRUCTURAL METAL PRODUCTS

3441 Fabricated Structural Metal

Establishments primarily engaged in fabricating iron and steel or other metal for structural purposes, such as bridges, buildings, and sections for ships, boats, and barges. Establishments primarily engaged in manufacturing metal doors, sash, frames, molding, and trim are classified in industry 3442; and establishments doing fabrication work at the site of construction are classified in Division C, Construction.

3442 Metal Doors, Sash, Frames, Molding, and Trim

Establishments primarily engaged in manufacturing ferrous and nonferrous metal doors, sash, window and door frames and screens, molding, and trim. Establishments primarily engaged in manufacturing metal covered wood doors, windows, sash, door frames, molding, and trim are classified in industry 2431.

3443 Fabricated Plate Work (Boiler Shops)

Establishments primarily engaged in manufacturing power and marine boilers, pressure and nonpressure tanks, processing and storage vessels, heat exchangers, weldments and similar products, by the process of cutting, forming and joining metal plates, shapes, bars, sheet, pipe mill products and tubing to custom or standard design, for factory or field assembly. Establishments primarily engaged in manufacturing warm air heating furnaces are classified in industry 3585; those manufacturing other nonelectric heating apparatus, except power boilers, are classified in industry 3433; those manufacturing household cooking apparatus are classified in industry 3631; and those manufacturing industrial process furnaces and ovens are classified in industry 3567.

3444 Sheet Metalwork

Establishments primarily engaged in manufacturing sheet metalwork for buildings (not including fabrication work done by construction contractors at the place of construction), and manufacturing stovepipes, light tanks, and other products of sheet metal.

3446 Architectural and Ornamental Metalwork

Establishments primarily engaged in manufacturing architectural and ornamental metalwork, such as stairs and staircases, open steel flooring (grating), fire escapes, grilles, railings, and fences and gates, except those made from wire. Establishments primarily engaged in manufacturing fences and gates from purchased wire are classified in industry 3496; those manufacturing prefabricated metal buildings and parts are classified in industry 3448; and those manufacturing miscellaneous metalwork are classified in industry 3449.

3448 Prefabricated Metal Buildings and Components

Establishments primarily engaged in manufacturing portable and other prefabricated metal buildings and parts and prefabricated exterior metal panels.

3449 Miscellaneous Structural Metalwork

Establishments primarily engaged in manufacturing miscellaneous structural metalwork, such as metal plaster bases, fabricated bar joists, and concrete reinforcing bars. Also included in this industry are establishments primarily engaged in custom roll forming of metal.

345 SCREW MACHINE PRODUCTS, AND BOLTS, NUTS, SCREWS, RIVETS, AND WASHERS

3451 Screw Machine Products

Establishments primarily engaged in manufacturing automatic or hand screw machine products from rod, bar, or tube stock of metal, fiber, plastics or other material. The

products of this industry consist of a wide variety of unassembled parts and are usually manufactured on a job or order basis. Establishments included in this industry may perform assembly of some parts manufactured in the same establishment, but establishments primarily engaged in producing assembled components are classified according to the nature of the components. Establishments primarily engaged in manufacturing standard bolts, nuts, rivets, screws, and other industrial fasteners on headers, threaders, and nut forming machines are classified in industry 3452.

3452 Bolts, Nuts, Screws, Rivets, and Washers

Establishments primarily engaged in manufacturing metal bolts, nuts, screws, rivets, washers, formed and threaded wire goods, and special industrial fasteners. Rolling mills engaged in manufacturing similar products are classified in major group 33; establishments primarily engaged in manufacturing screw machine products are classified in industry 3451; and those manufacturing plastics fasteners are classified in industry 3089.

346 METAL FORGINGS AND STAMPINGS

This industry group includes establishments primarily engaged in manufacturing metal forgings or metal stampings. These establishments generally operate on a job or order basis, manufacturing metal stampings or forgings for sale to others or for interplant transfer. Establishments which produce metal stampings or forgings for incorporation in end products produced in the same establishment are classified on the basis of the end product. Establishments further processing forgings or stampings are classified according to the particular product or process.

3462 Iron and Steel Forgings

Establishments primarily engaged in manufacturing iron and steel forgings, with or without the use of dies.

3463 Nonferrous Forgings

Establishments primarily engaged in manufacturing nonferrous forgings, with or without the use of dies.

3465 Automotive Stampings

Establishments primarily engaged in manufacturing automotive stampings, such as body parts, hubs, and trim.

3466 Crowns and Closures

Establishments primarily engaged in manufacturing metal crowns and closures.

3469 Metal Stampings, Not Elsewhere Classified

Establishments primarily engaged in manufacturing metal stampings and spun products, not elsewhere classified, including porcelain enameled products. Products of this industry include household appliance housings and parts; cooking and kitchen utensils; and other nonautomotive job stampings.

347 COATING, ENGRAVING, AND ALLIED SERVICES

3471 Electroplating, Plating, Polishing, Anodizing, and Coloring

Establishments primarily engaged in all types of electroplating, plating, anodizing, coloring, and finishing of metals and formed products for the trade. Also included in this industry are establishments which perform these types of activities, on their own account, on purchased metals or formed products. Establishments that both manufacture and finish products are classified according to the products.

3479 Coating, Engraving, and Allied Services, Not Elsewhere Classified

Establishments primarily engaged in performing the following types of services on metals, for the trade: (1) enameling, lacquering, and varnishing metal products; (2) hot dip galvanizing of mill sheets, plates and bars, castings, and formed products fabricated of iron and steel; hot dip coating such items with aluminum, lead, or zinc; retinning cans and utensils; (3) engraving, chasing and etching jewelry, silverware, notarial and other seals, and other metal products for purposes other than printing; and (4) other metal services, not elsewhere classified. Also included in this industry are establishments which perform these types of activities on their own account on purchased metals or formed products. Establishments that both manufacture and finish products are classified according to the products.

348 ORDNANCE AND ACCESSORIES, EXCEPT VEHICLES AND GUIDED MISSILES

3482 Small Arms Ammunition

Establishments primarily engaged in manufacturing ammunition for small arms having a bore of 30 mm. (or 1.18 inch) or less. Establishments primarily engaged in manufacturing ammunition, except for small arms, are classified in industry 3483; those manufacturing blasting and detonating caps and safety fuses are classified in industry 2892; and those manufacturing fireworks are classified in industry 2899.

3483 Ammunition, Except for Small Arms

Establishments primarily engaged in manufacturing ammunition, not elsewhere classified, or in loading and assembling ammunition more than 30 mm. (or more than 1.18 inch), including component parts. This industry also includes establishments primarily engaged in manufacturing bombs, mines, torpedoes, grenades, depth charges, chemical warfare projectiles, and their component parts. Establishments primarily engaged in manufacturing small arms

ammunition are classified in industry 3482; those manufacturing explosives are classified in industry 2892; and those manufacturing military pyrotechnics are classified in industry 2899.

3484 Small Arms

Establishments primarily engaged in manufacturing small firearms having a bore 30 mm. (or 1.18 inch) or less, and parts for small firearms. Also included in this industry are establishments primarily engaged in manufacturing certain weapons more than 30 mm. which are carried and employed by the individual, such as grenade launchers and heavy field machine guns. Establishments primarily engaged in manufacturing artillery and mortars having a bore more than 30 mm. (or more than 1.18 inch), and component parts, are classified in industry 3489.

3489 Ordnance and Accessories, Not Elsewhere Classified

Establishments primarily engaged in manufacturing ordnance and accessories, not elsewhere classified, such as naval, aircraft, antiaircraft, tank, coast, and field artillery having a bore more than 30 mm. (or more than 1.18 inch), and components. Establishments primarily engaged in manufacturing small arms and parts 30 mm. (or 1.18 inch) or less are classified in industry 3484; those manufacturing tanks are classified in industry 3795; and those manufacturing guided missiles are classified in industry group 376.

349 MISCELLANEOUS FABRICATED METAL PRODUCTS

3491 Industrial Valves

Establishments primarily engaged in manufacturing industrial valves. Establishments primarily engaged in manufacturing fluid power valves are classified in industry 3492; those manufacturing plumbing fixture fittings and trim are classified in industry 3432; and those manufacturing plumbing and heating valves are classified in industry 3494.

3492 Fluid Power Valves and Hose Fittings

Establishments primarily engaged in manufacturing hydraulic and pneumatic valves, hose and tube fittings, and hose assemblies for fluid power systems. Establishments primarily engaged in manufacturing fluid power cylinders are classified in industry 3593; those manufacturing fluid power pumps are classified in industry 3594; and those manufacturing hydraulic intake and exhaust motor vehicle valves are classified in industry 3592.

3493 Steel Springs, Except Wire

Establishments primarily engaged in manufacturing leaf springs, hot wound springs, and coiled flat springs. Establishments primarily engaged in manufacturing wire springs are classified in industry 3495.

3494 Valves and Pipe Fittings, Not Elsewhere Classified

Establishments primarily engaged in manufacturing metal valves and pipe fittings, not elsewhere classified, such as plumbing and heating valves, and pipe fittings, flanges, and unions, except from purchased pipes. Establishments primarily engaged in manufacturing plastics pipe fittings are classified in industry 3089; those manufacturing plumbing fixture fittings and trim are classified in industry 3432; and those manufacturing fittings and couplings for garden hose are classified in industry 3429. Establishments primarily engaged in manufacturing fluid power valves are classified in industry 3492, and those manufacturing other industrial valves are classified in industry 3491. Establishments primarily engaged in fabricating pipe fittings from purchased metal pipe by processes such as cutting, threading, and bending are classified in industry 3498.

3495 Wire Springs

Establishments primarily engaged in manufacturing wire springs from purchased wire. Establishments primarily engaged in assembling wire bedsprings or seats are classified in major group 25.

3496 Miscellaneous Fabricated Wire Products

Establishments primarily engaged in manufacturing miscellaneous fabricated wire products from purchased wire, such as noninsulated wire rope and cable; fencing; screening, netting, paper machine wire cloth; hangers, paper clips, kitchenware, and wire carts. Rolling mills engaged in manufacturing wire products are classified in major group 33. Establishments primarily engaged in manufacturing steel nails and spikes from purchased wire or rod are classified in industry 3315; those manufacturing nonferrous wire nails and spikes from purchased wire or rod are classified in industry 3399; those drawing and insulating nonferrous wire are classified in industry 3357; and those manufacturing wire springs are classified in industry 3495.

3497 Metal Foil and Leaf

Establishments primarily engaged in manufacturing gold, silver, tin, and other metal foil (including converted metal foil) and leaf. Also included are establishments primarily engaged in converting metal foil (including aluminum) into wrappers, cookware, dinnerware, and containers, except bags and liners. Establishments primarily engaged in manufacturing plain aluminum foil are classified in industry 3353.

3498 Fabricated Pipe and Pipe Fittings

Establishments primarily engaged in fabricating pipe and pipe fittings from purchased metal pipe, by processes such as cutting, threading, and bending. Establishments primarily engaged in manufacturing cast iron pipe and fittings, including cast and forged pipe fittings which have

been machined and threaded, are classified in industry 3321; those manufacturing welded and heavy riveted pipe and seamless steel pipe are classified in industry 3317; and those manufacturing products such as banisters, railings, and guards from pipe are classified in industry 3446.

3499 Fabricated Metal Products, Not Elsewhere Classified

Establishments primarily engaged in manufacturing fabricated metal products, not elsewhere classified, such as fire or burglary resistive steel safes and vaults and similar fire or burglary resistive products; and collapsible tubes of thin flexible metal. Also included are establishments primarily engaged in manufacturing metal boxes, metal ladders, and metal household articles, such as ice cream freezers and ironing boards. Establishments primarily engaged in manufacturing concrete burial vaults are classified in industry 3272, and metal burial vaults are classified in industry 3995. Establishments primarily engaged in manufacturing advertising novelties are classified in industry 3993.

35 INDUSTRIAL AND COMMERCIAL MACHINERY AND COMPUTER EQUIPMENT

This major group includes establishments engaged in manufacturing industrial and commercial machinery and equipment and computers. Included are the manufacture of engines and turbines; farm and garden machinery; construction, mining, and oil field machinery; elevators and conveying equipment; hoists, cranes, monorails, and industrial trucks and tractors; metalworking machinery; special industry machinery; general industrial machinery; computer and peripheral equipment and office machinery; and refrigeration and service industry machinery. Machines powered by built-in or detachable motors ordinarily are included in this major group, with the exception of electrical household appliances. Power-driven handtools are included in this major group, whether electric or otherwise driven. Establishments primarily engaged in manufacturing electrical equipment are classified in major group 36, and those manufacturing handtools, except powered, are classified in major group 34.

351 ENGINES AND TURBINES

3511 Steam, Gas, and Hydraulic Turbines, and Turbine Generator Set Units

Establishments primarily engaged in manufacturing steam turbines; hydraulic turbines; gas turbines, except aircraft; and complete steam, gas, and hydraulic turbine generator set units. Also included in this industry are the manufacture of wind and solar powered turbine generators and windmills for generating electric power. Establishments primarily engaged in manufacturing nonautomotive type generators are classified in industry 3621; those manufacturing

aircraft turbines are classified in industry 3724; and those manufacturing windmill heads and towers for pumping water for agricultural use are classified in industry 3523.

3519 Internal Combustion Engines, Not Elsewhere Classified

Establishments primarily engaged in manufacturing diesel, semidiesel, or other internal combustion engines, not elsewhere classified, for stationary, marine, traction, and other uses. Establishments primarily engaged in manufacturing aircraft engines are classified in industry 3724, and those manufacturing automotive engines, except diesel, are classified in industry 3714.

352 FARM AND GARDEN MACHINERY AND EQUIPMENT

3523 Farm Machinery and Equipment

Establishments primarily engaged in manufacturing farm machinery and equipment, including wheel tractors, for use in the preparation and maintenance of the soil; planting and harvesting of the crop; preparing crops for market on the farm; or for use in performing other farm operations and processes. Included in this industry are establishments primarily engaged in manufacturing commercial mowing and other turf and grounds care equipment. Establishments primarily engaged in manufacturing farm handtools are classified in industry group 342, and those manufacturing garden tractors, lawnmowers and other lawn and garden equipment are classified in industry 3524.

3524 Lawn and Garden Tractors and Home Lawn and Garden Equipment

Establishments primarily engaged in manufacturing lawnmowers, lawn and garden tractors, and other lawn and garden equipment used for home lawn and garden care. Also included are establishments primarily engaged in manufacturing snowblowers and throwers for residential use. Establishments primarily engaged in manufacturing farm machinery and equipment (including commercial mowing and other turf and grounds care equipment) are classified in industry 3523; those manufacturing hand lawn and garden shears and pruners are classified in industry 3421; and those manufacturing other garden handtools are classified in industry 3423.

353 CONSTRUCTION, MINING, AND MATERIALS HANDLING MACHINERY AND EQUIPMENT

3531 Construction Machinery and Equipment

Establishments primarily engaged in manufacturing heavy machinery and equipment of a type used primarily by the construction industries, such as bulldozers; concrete mixers; cranes, except industrial plant overhead and truck-type cranes; dredging machinery; pavers; and power shovels. Also included in this industry are establishments

primarily engaged in manufacturing forestry equipment and certain specialized equipment, not elsewhere classified, similar to that used by the construction industries, such as elevating platforms, ship cranes and capstans, aerial work platforms, and automobile wrecker hoists. Establishments primarily engaged in manufacturing mining equipment are classified in industry 3532; those manufacturing well-drilling machinery are classified in industry 3533; those manufacturing industrial plant overhead traveling cranes are classified in industry 3536; and those manufacturing industrial truck-type cranes are classified in industry 3537.

3532 Mining Machinery and Equipment, Except Oil and Gas Field Machinery and Equipment

Establishments primarily engaged in manufacturing heavy machinery and equipment used by the mining industries, such as coal breakers, mine cars, mineral cleaning machinery, concentration machinery, core drills, coal cutters, portable rock drills, and rock crushing machinery. Establishments primarily engaged in manufacturing construction machinery are classified in industry 3531; those manufacturing well-drilling machinery are classified in industry 3533; and those manufacturing coal and ore conveyors are classified in industry 3535.

3533 Oil and Gas Field Machinery and Equipment

Establishments primarily engaged in manufacturing machinery and equipment for use in oil and gas fields or for drilling water wells, including portable drilling rigs. Establishments primarily engaged in manufacturing offshore oil and gas well drilling and production platforms are classified in industry 3731.

3534 Elevators and Moving Stairways

Establishments primarily engaged in manufacturing passenger or freight elevators, automobile lifts, dumbwaiters, and moving stairways. Establishments primarily engaged in manufacturing commercial conveyor systems and equipment are classified in industry 3535, and those manufacturing farm elevators are classified in industry 3523.

3535 Conveyors and Conveying Equipment

Establishments primarily engaged in manufacturing conveyors and conveying equipment for installation in factories, warehouses, mines, and other industrial and commercial establishments. Establishments primarily engaged in manufacturing farm elevators and conveyors are classified in industry 3523; those manufacturing passenger or freight elevators, dumbwaiters, and moving stairways are classified in industry 3534; and those manufacturing overhead traveling cranes and monorail systems are classified in industry 3536.

3536 Overhead Traveling Cranes, Hoists, and Monorail Systems

Establishments primarily engaged in manufacturing overhead traveling cranes, hoists, and monorail systems for installation in factories, warehouses, marinas, and other industrial and commercial establishments. Establishments primarily engaged in manufacturing cranes except industrial types, automobile wrecker hoists, and aerial work platforms are classified in industry 3531, and those manufacturing aircraft loading hoists are classified in industry 3537.

3537 Industrial Trucks, Tractors, Trailers, and Stackers

Establishments primarily engaged in manufacturing industrial trucks, tractors, trailers, stackers (truck type), and related equipment, used for handling materials on floors and paved surfaces in and around industrial and commercial plants, depots, docks, airports, and terminals. Establishments primarily engaged in manufacturing motor vehicles and motor vehicle type trailers are classified in industry group 371; those manufacturing farm type wheel tractors are classified in industry 3523; those manufacturing tractor shovel loaders and tracklaying tractors are classified in industry 3531; and those manufacturing wood pallets and skids are classified in industry 2448.

354 METALWORKING MACHINERY AND EQUIPMENT

3541 Machine Tools, Metal Cutting Types

Establishments primarily engaged in manufacturing metal cutting type machine tools, not supported in the hands of an operator when in use, that shape metal by cutting or use of electrical techniques; the rebuilding of such machine tools, and the manufacture of replacement parts for them. Also included in this industry are metalworking machine tools designed primarily for home workshops. Establishments primarily engaged in the manufacture of electric and gas welding and soldering equipment are classified in industry 3548, and those manufacturing portable power-driven handtools are classified in industry 3546.

3542 Machine Tools, Metal Forming Types

Establishments primarily engaged in manufacturing metal forming machine tools, not supported in the hands of an operator while in use, for pressing, hammering, extruding, shearing, diecasting, or otherwise forming metal into shape. This industry also includes the rebuilding of such machine tools and the manufacture of repair parts for them. Establishments primarily engaged in the manufacture of electric and gas welding equipment and soldering equipment are classified in industry 3548; those manufacturing portable

power-driven handtools are classified in industry 3546; and those manufacturing rolling mill machinery and equipment are classified in industry 3547.

3543 Industrial Patterns

Establishments primarily engaged in manufacturing industrial patterns.

3544 Special Dies and Tools, Die Sets, Jigs and Fixtures, and Industrial Molds

Establishments commonly known as contract tool and die shops and primarily engaged in manufacturing, on a job or order basis, special tools and fixtures for use with machine tools, hammers, die-casting machines, and presses. The products of establishments classified in this industry include a wide variety of special toolings, such as dies; punches; diesets and components, and subpresses; jigs and fixtures; and special checking devices. Establishments primarily engaged in manufacturing molds for die-casting and foundry casting; metal molds for plaster working, rubber working, plastics working, glass working and similar machinery are also included. Establishments primarily engaged in manufacturing molds for heavy steel ingots are classified in industry 3321, and those manufacturing cutting dies, except metal cutting, are classified in industry 3423.

3545 Cutting Tools, Machine Tool Accessories, and Machinists' Precision Measuring Devices

Establishments primarily engaged in manufacturing cutting tools, machinists' precision measuring tools, and attachments and accessories for machine tools and for other metalworking machinery, not elsewhere classified. Establishments primarily engaged in manufacturing handtools, except power-driven types, are classified in industry group 342.

3546 Power-Driven Handtools

Establishments primarily engaged in manufacturing power-driven handtools, such as drills and drilling tools, pneumatic and snagging grinders, and electric hammers. Establishments primarily engaged in manufacturing metal cutting type and metal forming type machines (including home workshop tools) which are not supported in the hands of an operator are classified in industries 3541 and 3542; and those primarily manufacturing power-driven heavy construction or mining handtools are classified in industry group 353.

3547 Rolling Mill Machinery and Equipment

Establishments primarily engaged in manufacturing rolling mill machinery and processing equipment for metal production, such as cold forming mills, structural mills, and finishing equipment.

3548 Electric and Gas Welding and Soldering Equipment

Establishments primarily engaged in manufacturing electric and gas welding and soldering equipment and accessories. Also included are establishments primarily engaged in coating welding wire from purchased wire or from wire drawn in the same establishment. Establishments primarily engaged in manufacturing handheld soldering irons are classified in industry 3423, and those manufacturing electron beam, ultrasonic, and laser welding equipment are classified in industry 3699.

3549 Metalworking Machinery, Not Elsewhere Classified

Establishments primarily engaged in manufacturing metalworking machinery, not elsewhere classified. Establishments primarily engaged in manufacturing automotive maintenance equipment are classified in industry 3559.

355 SPECIAL INDUSTRY MACHINERY, EXCEPT METALWORKING MACHINERY

3552 Textile Machinery

Establishments primarily engaged in manufacturing machinery for the textile industries, including parts, attachments, and accessories. Establishments primarily engaged in manufacturing industrial sewing machines are classified in industry 3559, and those manufacturing household sewing machines are classified in industry 3639.

3553 Woodworking Machinery

Establishments primarily engaged in manufacturing machinery for sawmills, for making particleboard and similar products, and for otherwise working or producing wood products. Establishments primarily engaged in manufacturing handtools such as planes, axes, drawknives, and handsaws are classified in industry group 342, and those manufacturing portable power-driven handtools in industry 3546.

3554 Paper Industries Machinery

Establishments primarily engaged in manufacturing machinery for the pulp, paper, and paper product industries. Establishments primarily engaged in manufacturing printing trades machinery are classified in industry 3555.

3555 Printing Trades Machinery and Equipment

Establishments primarily engaged in manufacturing machinery and equipment used by the printing and bookbinding trades. Establishments primarily engaged in manufacturing textile printing machinery are classified in industry 3552.

3556 Food Products Machinery

Establishments primarily engaged in manufacturing machinery for use by the food products and beverage manufacturing industries and similar machinery for use in manufacturing animal foods. Establishments primarily engaged in manufacturing food packaging machinery are classified in industry 3565, and those manufacturing industrial refrigeration machinery are classified in industry group 358.

3559 Special Industry Machinery, Not Elsewhere Classified

Establishments primarily engaged in manufacturing special industry machinery, not elsewhere classified, such as smelting and refining equipment, cement making, clayworking, cotton ginning, glass making, hat making, incandescent lamp making, leather working, paint making, rubber working, cigar and cigarette making, tobacco working, shoe making, and stone working machinery, and industrial sewing machines, and automotive maintenance machinery and equipment.

356 GENERAL INDUSTRIAL MACHINERY AND EQUIPMENT

3561 Pumps and Pumping Equipment

Establishments primarily engaged in manufacturing pumps and pumping equipment for general industrial, commercial, or household use, except fluid power pumps and motors. Included are establishments primarily engaged in manufacturing domestic water and sump pumps. Establishments primarily engaged in manufacturing fluid power pumps and motors are classified in industry 3594; those manufacturing measuring and dispensing pumps for gasoline service station use are classified in industry 3586; those manufacturing vacuum pumps, except laboratory, are classified in industry 3563; those manufacturing laboratory vacuum pumps are classified in industry 3821; and those manufacturing pumps for motor vehicles are classified in industry 3714.

3562 Ball and Roller Bearings

Establishments primarily engaged in manufacturing ball and roller bearings (including ball or roller bearing pillow block, flange, takeup cartridge and hangar units) and parts. Establishments primarily engaged in manufacturing plain bearings are classified in industry 3568.

3563 Air and Gas Compressors

Establishments primarily engaged in manufacturing air and gas compressors for general industrial use, and in manufacturing nonagricultural spraying and dusting equipment. Establishments primarily engaged in manufacturing

refrigeration and air-conditioning compressors and compressing units are classified in industry 3585; those manufacturing pneumatic pumps and motors for fluid power transmission are classified in industry 3594; those manufacturing agricultural spraying and dusting equipment are classified in industry 3523; and those manufacturing laboratory vacuum pumps are classified in industry 3821.

3564 Industrial and Commercial Fans and Blowers and Air Purification Equipment

Establishments primarily engaged in manufacturing industrial and commercial blowers, industrial and commercial exhaust and ventilating fans, and attic fans, or in manufacturing dust collection and other air purification equipment for heating, ventilating and air-conditioning systems or for industrial gas cleaning systems. Establishments primarily engaged in manufacturing air-conditioning units are classified in industry 3585; those manufacturing free air-circulating fans for use on desks, pedestals, or wall brackets as well as household window-type fans and roll-abouts, and kitchen and household ventilating and exhaust electric fans, except attic, are classified in industry 3634.

3565 Packaging Machinery

Establishments primarily engaged in manufacturing packaging machinery, including wrapping and bottling machinery.

3566 Speed Changers, Industrial High-Speed Drives, and Gears

Establishments primarily engaged in manufacturing speed changers, industrial high-speed drives, except hydrostatic drives, and gears. Establishments primarily engaged in manufacturing automotive power transmission equipment are classified in industry 3714; those manufacturing aircraft power transmission equipment are classified in industry 3728; and those manufacturing industrial hydrostatic drives (transmissions) are classified in industry 3594.

3567 Industrial Process Furnaces and Ovens

Establishments primarily engaged in manufacturing industrial process furnaces, ovens, induction and dielectric heating equipment, and related devices. Establishments primarily engaged in manufacturing bakery ovens are classified in industry 3556; those manufacturing cement, wood, and chemical kilns are classified in industry 3559; those manufacturing cremating ovens are classified in industry 3569; and those manufacturing laboratory furnaces and ovens are classified in industry 3821.

3568 Mechanical Power Transmission Equipment, Not Elsewhere Classified

Establishments primarily engaged in manufacturing mechanical power transmission equipment and parts, for industrial machinery. Establishments primarily engaged in manufacturing motor vehicle power transmission equipment are

classified in industry 3714; those manufacturing aircraft power transmission equipment are classified in industry 3728; those manufacturing ball and roller bearings are classified in industry 3562; and those manufacturing speed changers, industrial high-speed drives, and gears are classified in industry 3566.

3569 General Industrial Machinery and Equipment, Not Elsewhere Classified

Establishments primarily engaged in manufacturing machinery, equipment, and components for general industrial use, and for which no special classification is provided. Machine shops primarily engaged in producing machine and equipment parts, usually on a job or order basis, are classified in industry 3599.

357 COMPUTER AND OFFICE EQUIPMENT

3571 Electronic Computers

Establishments primarily engaged in manufacturing electronic computers. Electronic computers are machines which: (1) store the processing program or programs and the data immediately necessary for execution of the program; (2) can be freely programmed in accordance with the requirements of the user; (3) perform arithmetical computations specified by the user; and (4) execute, without human intervention, a processing program which requires them to modify their execution by logical decision during the processing run. Included in this industry are digital computers, analog computers, and hybrid digital/analog computers. Establishments primarily engaged in manufacturing machinery or equipment which incorporate computers or a central processing unit for the purpose of performing functions such as measuring, displaying, or controlling process variables are classified based on the manufactured end product.

3572 Computer Storage Devices

Establishments primarily engaged in manufacturing computer storage devices.

3575 Computer Terminals

Establishments primarily engaged in manufacturing computer terminals. Establishments primarily engaged in manufacturing point-of-sale, funds transfer, and automatic teller machines are classified in industry 3578.

3577 Computer Peripheral Equipment, Not Elsewhere Classified

Establishments primarily engaged in manufacturing computer peripheral equipment, not elsewhere classified, including printers, plotters, and graphic displays. Establishments primarily engaged in manufacturing modems and other communications interface equipment are classified in industry 3661.

3578 Calculating and Accounting Machines, Except Electronic Computers

Establishments primarily engaged in manufacturing point-of-sale devices, funds transfer devices, and other calculating and accounting machines, except electronic computers. Included are electronic calculating and accounting machines which must be paced by operator intervention, even when augmented by attachments. These machines may include program control or have input/output capabilities.

3579 Office Machines, Not Elsewhere Classified

Establishments primarily engaged in manufacturing office machines and devices, not elsewhere classified, including typewriters and word processing equipment. Establishments primarily engaged in manufacturing photocopy and microfilm equipment are classified in industry 3861.

358 REFRIGERATION AND SERVICE INDUSTRY MACHINERY

3581 Automatic Vending Machines

Establishments primarily engaged in manufacturing automatic vending machines and coin-operated mechanisms for such machines.

3582 Commercial Laundry, Drycleaning, and Pressing Machines

Establishments primarily engaged in manufacturing laundry and drycleaning equipment and pressing machines for commercial and industrial use. Establishments primarily engaged in manufacturing household laundry equipment, including coin-operated washers and dryers, are classified in industry 3633.

3585 Air-Conditioning and Warm Air Heating Equipment and Commercial and Industrial Refrigeration Equipment

Establishments primarily engaged in manufacturing refrigeration equipment and systems and similar equipment for commercial and industrial use; complete air-conditioning units for domestic, commercial, and industrial use; and warm air furnaces. Establishments primarily engaged in manufacturing soda fountains and beer dispensing equipment and humidifiers and dehumidifiers, except portable, are also classified in this industry. Establishments primarily engaged in manufacturing household refrigerators and home and farm freezers are classified in industry 3632, and those manufacturing electric airspace heaters and portable humidifiers and dehumidifiers are classified in industry 3634.

3586 Measuring and Dispensing Pumps

Establishments primarily engaged in manufacturing measuring and dispensing pumps commonly used in service stations for dispensing gasoline, oil, and grease, including grease guns. Establishments primarily engaged in manufacturing pumps and pumping equipment for general industrial use are classified in industry group 356.

3589 Service Industry Machinery, Not Elsewhere Classified

Establishments primarily engaged in manufacturing machines and equipment, not elsewhere classified, for use in service industries, such as floor sanding machines, industrial vacuum cleaners, scrubbing machines, commercial cooking and food warming equipment, and commercial dishwashing machines. Establishments primarily engaged in manufacturing household electrical appliances are classified in industry group 363.

359 MISCELLANEOUS INDUSTRIAL AND COMMERCIAL MACHINERY AND EQUIPMENT

3592 Carburetors, Pistons, Piston Rings, and Valves

Establishments primarily engaged in manufacturing carburetors, pistons, piston rings, and engine intake and exhaust valves. Establishments primarily engaged in manufacturing metallic packing are classified in industry 3053, and those primarily engaged in manufacturing machine repair and equipment parts (except electric), on a job or order basis for others, are classified in industry 3599.

3593 Fluid Power Cylinders and Actuators

Establishments primarily engaged in manufacturing hydraulic and pneumatic cylinders and actuators for use in fluid power systems.

3594 Fluid Power Pumps and Motors

Establishments primarily engaged in manufacturing hydraulic and pneumatic fluid power pumps and motors, including hydrostatic transmissions. Establishments primarily engaged in manufacturing pumps for motor vehicles are classified in industry 3714.

3596 Scales and Balances, Except Laboratory

Establishments primarily engaged in manufacturing weighing and force-measuring machines and devices of all types, except those regarded as scientific apparatus for laboratory work which are classified in industry 3821.

3599 Industrial and Commercial Machinery and Equipment, Not Elsewhere Classified

Establishments primarily engaged in manufacturing machinery and equipment and parts, not elsewhere classified, such as amusement park equipment and flexible metal hose and tubing. This industry also includes establishments primarily engaged in producing or repairing machinery and equipment parts, not elsewhere classified, on a job or order basis for others. Establishments primarily engaged in manufacturing motor vehicle engine filters are classified in industry 3714, and those manufacturing coin-operated amusement machines are classified in industry 3999.

36 ELECTRONIC AND OTHER ELECTRICAL EQUIPMENT AND COMPONENTS, EXCEPT COMPUTER EQUIPMENT

This major group includes establishments engaged in manufacturing machinery, apparatus, and supplies for the generation, storage, transmission, transformation, and utilization of electrical energy. Included are the manufacturing of electricity distribution equipment; electrical industrial apparatus; household appliances; electrical lighting and wiring equipment; radio and television receiving equipment; communications equipment; electronic components and accessories; and other electrical equipment and supplies. The manufacture of household appliances is included in this group, but industrial machinery and equipment powered by built-in or detachable electric motors is classified in major group 35. Establishments primarily engaged in manufacturing instruments are classified in major group 38.

361 ELECTRIC TRANSMISSION AND DISTRIBUTION EQUIPMENT

3612 Power, Distribution, and Specialty Transformers

Establishments primarily engaged in manufacturing power, distribution, instrument, and specialty transformers. Establishments primarily engaged in manufacturing radio frequency or voice frequency electronic transformers, coils, or chokes are classified in industry 3677, and those manufacturing resistance welder transformers are classified in industry 3548.

3613 Switchgear and Switchboard Apparatus

Establishments primarily engaged in manufacturing switchgear and switchboard apparatus. Important products of this industry include power switches, circuit breakers, power switching equipment, and similar switchgear for general industrial application; switchboards and cubicles, control and metering panels, fuses and fuse mountings, and similar switchboard apparatus and supplies. Establishments primarily engaged in manufacturing relays are classified in industry 3625. Establishments manufacturing switches

other than switchgear type are classified in industry 3625 if the switches are of the type used as industrial controls, in industry 3679 if the switches are of the type used in electronic devices, and in industry 3643 if the switches are of other types used in wiring circuits.

362 ELECTRICAL INDUSTRIAL APPARATUS

3621 Motors and Generators

Establishments primarily engaged in manufacturing electric motors (except engine starting motors) and power generators; motor generator sets; railway motors and control equipment; and motors, generators, and control equipment for gasoline, electric, and oil-electric buses and trucks. Establishments primarily engaged in manufacturing turbogenerators are classified in industry 3511; those manufacturing starting motors and battery charging generators for internal combustion engines are classified in industry 3694; and those manufacturing generators for welding equipment are classified in industry 3548.

3624 Carbon and Graphite Products

Establishments primarily engaged in manufacturing carbon, graphite, and metal-graphite brushes and brush stock; carbon or graphite electrodes for thermal and electrolytic uses; carbon and graphite fibers; and other carbon, graphite, and metal-graphite products.

3625 Relays and Industrial Controls

Establishments primarily engaged in manufacturing relays; motor starters and controllers; and other industrial controls and control accessories. Establishments primarily engaged in manufacturing automatic temperature controls are classified in industry 3822, and those manufacturing industrial process control instruments are classified in industry 3823.

3629 Electrical Industrial Apparatus, Not Elsewhere Classified

Establishments primarily engaged in manufacturing industrial and commercial electric apparatus and equipment, not elsewhere classified, such as fixed and variable capacitors and rectifiers for industrial applications. Establishments primarily engaged in manufacturing electronic capacitors and rectifiers are classified in industry group 367.

363 HOUSEHOLD APPLIANCES

3631 Household Cooking Equipment

Establishments primarily engaged in manufacturing household electric and nonelectric cooking equipment, such as stoves, ranges, and ovens, except portable electric appliances. This industry includes establishments primarily engaged

in manufacturing microwave and convection ovens, including portable. Establishments primarily engaged in manufacturing other electric household cooking appliances, such as portable ovens, hot plates, grills, percolators, and toasters, are classified in industry 3634. Establishments primarily engaged in manufacturing commercial cooking equipment are classified in industry 3589.

3632 Household Refrigerators and Home and Farm Freezers

Establishments primarily engaged in manufacturing household refrigerators and home and farm freezers. Establishments primarily engaged in manufacturing commercial and industrial refrigeration equipment, packaged room coolers, and all refrigeration compressor and condenser units are classified in industry 3585, and those manufacturing portable room dehumidifiers are classified in industry 3634.

3633 Household Laundry Equipment

Establishments primarily engaged in manufacturing laundry equipment, such as washing machines, dryers, and ironers, for household use, including coin-operated. Establishments primarily engaged in manufacturing commercial laundry equipment are classified in industry 3582, and those manufacturing portable electric irons are classified in industry 3634.

3634 Electric Housewares and Fans

Establishments primarily engaged in manufacturing electric housewares for heating, cooking, and other purposes; and electric household fans, except attic fans. Important products of this industry include household-type ventilation and exhaust fans; portable household cooking appliances, except convection and microwave ovens; electric space heaters; electrically heated bedcoverings, electric scissors; and portable humidifiers and dehumidifiers. Establishments primarily engaged in manufacturing attic fans and industrial and commercial exhaust and ventilation fans are classified in industry 3564; and those manufacturing room air-conditioners and humidifying and dehumidifying equipment, except portable, are classified in industry 3585.

3635 Household Vacuum Cleaners

Establishments primarily engaged in manufacturing vacuum cleaners for household use. Establishments primarily engaged in manufacturing vacuum cleaners for industrial use are classified in industry 3589. Establishments primarily engaged in installation of central vacuum cleaner systems are classified in Construction, industry 1796.

3639 Household Appliances, Not Elsewhere Classified

Establishments primarily engaged in manufacturing household appliances, not elsewhere classified, such as water heaters, dishwashers, food waste disposal units, and household sewing machines.

364 ELECTRIC LIGHTING AND WIRING EQUIPMENT

3641 Electric Lamp Bulbs and Tubes

Establishments primarily engaged in manufacturing electric bulbs, tubes, and related light sources. Important products of this industry include incandescent filament lamps, vapor and fluorescent lamps, photoflash and photoflood lamps, and electrotherapeutic lamp units for ultraviolet and infrared radiation. Establishments primarily engaged in manufacturing glass blanks for bulbs are classified in industry 3229.

3643 Current-Carrying Wiring Devices

Establishments primarily engaged in manufacturing current-carrying wiring devices.

3644 Noncurrent-Carrying Wiring Devices

Establishments primarily engaged in manufacturing noncurrent-carrying wiring devices. Important products of this industry include conduits and fittings; electrical insulators, except porcelain and other ceramic insulators and glass insulators; outlet, switch, and fuse boxes; and pole line hardware. Establishments primarily engaged in manufacturing ceramic insulators are classified in industry 3264, and those manufacturing glass insulators are classified in industry 3229.

3645 Residential Electric Lighting Fixtures

Establishments primarily engaged in manufacturing residential electric lighting fixtures and equipment, fixed or portable. Establishments primarily engaged in producing glassware for lighting fixtures are classified in major group 32; those manufacturing electric light bulbs, tubes, and related light sources are classified in industry 3641; those manufacturing lamp shades, except glass and metal, are classified in industry 3999; and those manufacturing non-electric fixtures and portable electric flashlights, lanterns, and similar lamps are classified in industry 3648.

3646 Commercial, Industrial, and Institutional Electric Lighting Fixtures

Establishments primarily engaged in manufacturing commercial, industrial, and institutional electric lighting fixtures. Establishments primarily engaged in producing glassware for lighting fixtures are classified in major group 32; those manufacturing residential lighting fixtures are classified in industry 3645; and those manufacturing vehicular lighting fixtures are classified in industry 3647.

3647 Vehicular Lighting Equipment

Establishments primarily engaged in manufacturing vehicular lighting equipment. Establishments primarily engaged in manufacturing sealed-beam lamps are classified in industry 3641.

3648 Lighting Equipment, Not Elsewhere Classified

Establishments primarily engaged in manufacturing lighting fixtures and equipment, electric and nonelectric, not elsewhere classified, including flashlights and similar portable lamps, searchlights, ultraviolet lamp fixtures, and infrared lamp fixtures. Establishments primarily engaged in manufacturing electric light bulbs, tubes, and related light sources are classified in industry 3641; those producing glassware for lighting fixtures are classified in major group 32; and those manufacturing traffic signals are classified in industry 3669.

365 HOUSEHOLD AUDIO AND VIDEO EQUIPMENT, AND AUDIO RECORDINGS

3651 Household Audio and Video Equipment

Establishments primarily engaged in manufacturing electronic audio and video equipment for home entertainment (including automotive), such as television sets, radio broadcast receivers, tape players, phonographs, and video recorders and players. This industry also includes establishments primarily engaged in manufacturing public address systems and music distribution apparatus. Establishments primarily engaged in manufacturing phonograph records and prerecorded audio tapes are classified in industry 3652; those manufacturing telephone answering machines are classified in industry 3661; those manufacturing motion picture reproduction equipment are classified in industry 3861; and those manufacturing phonograph needles and cartridges are classified in industry 3679. Establishments primarily engaged in manufacturing separate cabinets for home electronic equipment are classified in major group 25.

3652 Phonograph Records and Prerecorded Audio Tapes and Disks

Establishments primarily engaged in manufacturing phonograph records and prerecorded audio tapes and disks. Establishments primarily engaged in the design, development, and production of prepackaged computer software are classified in Services, industry group 737; and those reproducing prerecorded video tape cassettes and disks are classified in Services, major group 78.

366 COMMUNICATIONS EQUIPMENT

3661 Telephone and Telegraph Apparatus

Establishments primarily engaged in manufacturing wire telephone and telegraph equipment. Included are establishments manufacturing modems and other telephone and telegraph communications interface equipment. Establishments primarily engaged in manufacturing cellular radio telephones are classified in industry 3663.

3663 Radio and Television Broadcasting and Communications Equipment

Establishments primarily engaged in manufacturing radio and television broadcasting and communications equipment. Important products of this industry are closed-circuit and cable television equipment; studio equipment; light communications equipment; transmitters, transceivers and receivers (except household and automotive); cellular radio telephones; communication antennas; receivers; RF power amplifiers; and fixed and mobile radio systems. Establishments primarily engaged in manufacturing household audio and video equipment are classified in industry 3651; those manufacturing intercommunication equipment are classified in industry 3669; and those manufacturing consumer radio and television receiving antennas are classified in industry 3679.

3669 Communications Equipment, Not Elsewhere Classified

Establishments primarily engaged in manufacturing communications and related equipment, not elsewhere classified. Important products of this industry are intercommunication equipment, traffic signaling equipment, and fire and burglar alarm apparatus.

367 ELECTRONIC COMPONENTS AND ACCESSORIES

3671 Electron Tubes

Establishments primarily engaged in manufacturing electron tubes and tube parts. Establishments primarily engaged in manufacturing X-ray tubes and parts are classified in industry 3844.

3672 Printed Circuit Boards

Establishments primarily engaged in manufacturing printed circuit boards.

3674 Semiconductors and Related Devices

Establishments primarily engaged in manufacturing semiconductors and related solidstate devices. Important products of this industry are semiconductor diodes and stacks, including rectifiers, integrated microcircuits (semiconductor networks), transistors, solar cells, and light sensing and emitting semiconductor (solid-state) devices.

3675 Electronic Capacitors

Establishments primarily engaged in manufacturing electronic capacitors. Establishments primarily engaged in manufacturing electrical capacitors are classified in industry 3629.

3676 Electronic Resistors

Establishments primarily engaged in manufacturing electronic resistors. Establishments primarily engaged in manufacturing resistors for telephone and telegraph apparatus are classified in industry 3661.

3677 Electronic Coils, Transformers, and Other Inductors

Establishments primarily engaged in manufacturing electronic coils, transformers, and inductors. Establishments primarily engaged in manufacturing electrical transformers are classified in industry 3612; those manufacturing transformers and inductors for telephone and telegraph apparatus are classified in industry 3661, and those manufacturing semiconductors and related devices are classified in industry 3674.

3678 Electronic Connectors

Establishments primarily engaged in manufacturing electronic connectors. Establishments primarily engaged in manufacturing electrical connectors are classified in industry 3643; those manufacturing electronic capacitors are classified in industry 3675; and those manufacturing electronic coils, transformers, and other inductors are classified in industry 3677.

3679 Electronic Components, Not Elsewhere Classified

Establishments primarily engaged in manufacturing electronic components, not elsewhere classified, such as receiving antennas, switches, and waveguides. Establishments primarily engaged in manufacturing radio and television transmitting antennas are classified in industry 3663.

369 MISCELLANEOUS ELECTRICAL MACHINERY, EQUIPMENT, AND SUPPLIES

3691 Storage Batteries

Establishments primarily engaged in manufacturing storage batteries.

3692 Primary Batteries, Dry and Wet

Establishments primarily engaged in manufacturing primary batteries, dry or wet.

3694 Electrical Equipment For Internal Combustion Engines

Establishments primarily engaged in manufacturing electrical equipment for internal combustion engines. Important products of this industry include armatures, starting

motors, alternators, and generators for automobiles and aircraft; and ignition apparatus for internal combustion engines, including spark plugs, magnetos, coils, and distributors.

3695 Magnetic And Optical Recording Media

Establishments primarily engaged in manufacturing blank tape, disk, and cassette magnetic and optical recording media for use in recording audio, video, and digital signals. Establishments primarily engaged in manufacturing blank or recorded records and prerecorded audio tapes are classified in industry 3652; those manufacturing prepackaged computer software are classified in Services, industry 7372; and those manufacturing prerecorded video tape cassettes and disks are classified in Services, major group 78.

3699 Electrical Machinery, Equipment, and Supplies, Not Elsewhere Classified

Establishments primarily engaged in manufacturing electrical machinery, equipment, and supplies, not elsewhere classified, including high energy particle acceleration systems and equipment, electronic simulators, appliance and extension cords, bells and chimes, and insect traps.

37 TRANSPORTATION EQUIPMENT

This major group includes establishments engaged in manufacturing equipment for transportation of passengers and cargo by land, air, and water. Important products produced by establishments classified in this major group include motor vehicles, aircraft, guided missiles and space vehicles, ships, boats, railroad equipment, and miscellaneous transportation equipment, such as motorcycles, bicycles, and snowmobiles. Establishments primarily engaged in manufacturing mobile homes are classified in industry 2451. Establishments primarily engaged in manufacturing equipment used for moving materials on farms; in mines and on construction sites; in individual plants; in airports; or on other locations off the highway are classified in major group 35.

371 MOTOR VEHICLES AND MOTOR VEHICLE EQUIPMENT

3711 Motor Vehicles and Passenger Car Bodies

Establishments primarily engaged in manufacturing or assembling complete passenger automobiles, trucks, commercial cars and buses, and special purpose motor vehicles which are for highway use. This industry also includes establishments primarily engaged in manufacturing chassis and passenger car bodies. Such establishments may also manufacture motor vehicle parts, but establishments primarily engaged in manufacturing motor vehicle parts

except chassis and passenger car bodies are classified in industry 3714. Establishments primarily engaged in manufacturing truck and bus bodies and in assembling them on purchased chassis are classified in industry 3713; those manufacturing motor homes on purchased chassis are classified in industry 3716; those manufacturing motorcycles are classified in industry 3751; those manufacturing industrial tractors are classified in industry 3537; those manufacturing other wheel tractors, except contractors off-highway types, are classified in industry 3523; those manufacturing tracklaying and contractors' off-highway type tractors are classified in industry 3531; those manufacturing combat tanks and self-propelled weapons are classified in industry 3795; and those manufacturing stamped body parts for passenger cars are classified in industry 3465.

3713 Truck and Bus Bodies

Establishments primarily engaged in manufacturing truck and bus bodies and cabs for sale separately or for assembly on purchased chassis, or in assembling truck and bus bodies on purchased chassis. Establishments primarily engaged in manufacturing complete trucks and buses are classified in industry 3711; those manufacturing stamped body parts for trucks and buses are classified in industry 3465; those manufacturing truck trailers and demountable cargo containers are classified in industry 3715; those manufacturing cabs for agricultural tractors are classified in industry 3523; those manufacturing cabs for industrial trucks are classified in industry 3537; and those manufacturing cabs for off-highway construction trucks are classified in industry 3531.

3714 Motor Vehicle Parts and Accessories

Establishments primarily engaged in manufacturing motor vehicle parts and accessories, but not engaged in manufacturing complete motor vehicles or passenger car bodies. Establishments primarily engaged in manufacturing or assembling complete automobiles and trucks are classified in industry 3711; those manufacturing tires and tubes are classified in industry 3011; those manufacturing automobile glass are classified in major group 32; those manufacturing automobile stampings are classified in industry 3465; those manufacturing vehicular lighting equipment are classified in industry 3647; those manufacturing ignition systems are classified in industry 3694; those manufacturing storage batteries are classified in industry 3691; and those manufacturing carburetors, pistons, piston rings, and engine intake and exhaust valves are classified in industry 3592.

3715 Truck Trailers

Establishments primarily engaged in manufacturing truck trailers, truck trailer chassis for sale separately, detachable trailer bodies (cargo containers) for sale separately, and detachable trailer (cargo container) chassis, for sale separately.

3716 Motor Homes

Establishments primarily engaged in manufacturing self-contained motor homes on purchased chassis. Establishments engaged in manufacturing self-contained motor homes on chassis manufactured in the same establishment are classified in industry 3711. Establishments primarily engaged in manufacturing mobile homes are classified in industry 2451; and those manufacturing travel trailers and pickup campers are classified in industry 3792. Establishments primarily engaged in van conversion on a custom basis are classified in Services, industry 7532.

372 AIRCRAFT AND PARTS

3721 Aircraft

Establishments primarily engaged in manufacturing or assembling complete aircraft. This industry also includes establishments owned by aircraft manufacturers and primarily engaged in research and development on aircraft, whether from enterprise funds or on a contract or fee basis. Also included are establishments engaged in repairing and rebuilding aircraft on a factory basis. Establishments primarily engaged in manufacturing engines and other aircraft parts and auxiliary equipment are classified in industries 3724 and 3728; and those manufacturing guided missiles and space vehicles and parts are classified in industry group 376. Establishments primarily engaged in the repair of aircraft, except on a factory basis, are classified in Transportation, industry 4581; and research and development on aircraft by establishments not owned by aircraft manufacturers are classified in Services, industry 8731.

3724 Aircraft Engines and Engine Parts

Establishments primarily engaged in manufacturing aircraft engines and engine parts. This industry also includes establishments owned by aircraft engine manufacturers and primarily engaged in research and development on aircraft engines and engine parts whether from enterprise funds or on a contract or fee basis. Also included are establishments engaged in repairing and rebuilding aircraft engines on a factory basis. Establishments primarily engaged in manufacturing guided missile and space vehicle propulsion units and parts are classified in industry 3764; those manufacturing aircraft intake and exhaust valves and pistons are classified in industry 3592; and those manufacturing aircraft internal combustion engine filters are classified in industry 3714. Establishments primarily engaged in the repair of aircraft engines, except on a factory basis, are classified in Transportation, industry 4581; and research and development on aircraft engines on a contract or fee basis by establishments not owned by aircraft engine manufacturers are classified in Services, industry 8731.

3728 Aircraft Parts and Auxiliary Equipment, Not Elsewhere Classified

Establishments primarily engaged in manufacturing aircraft parts and auxiliary equipment, not elsewhere classified. This industry also includes establishments owned by manufacturers of aircraft parts and auxiliary equipment and primarily engaged in research and development on aircraft parts, whether from enterprise funds or on a contract or fee basis. Establishments primarily engaged in manufacturing or assembling complete aircraft are classified in industry 3721; those manufacturing aircraft engines and parts are classified in industry 3724; those manufacturing aeronautical instruments are classified in industry 3812; those manufacturing aircraft engine electrical (aeronautical electrical) equipment are classified in industry 3694; and those manufacturing guided missile and space vehicle parts and auxiliary equipment are classified in industry 3769. Establishments not owned by manufacturers of aircraft parts but primarily engaged in research and development on aircraft parts on a contract or fee basis are classified in Services, industry 8731.

373 SHIP AND BOAT BUILDING AND REPAIRING

3731 Ship Building and Repairing

Establishments primarily engaged in building and repairing ships, barges, and lighters, whether self-propelled or towed by other craft. This industry also includes the conversion and alteration of ships and the manufacture of offshore oil and gas well drilling and production platforms (whether or not self-propelled). Establishments primarily engaged in fabricating structural assemblies or components for ships, or subcontractors engaged in ship painting, joinery, carpentry work, and electrical wiring installation, are classified in other industries.

3732 Boat Building and Repairing

Establishments primarily engaged in building and repairing boats. Establishments primarily engaged in manufacturing rubber and nonrigid plastics boats are classified in major group 30. Establishments primarily engaged in operating marinas and which perform incidental boat repair are classified in Transportation, industry 4493; membership yacht clubs are classified in Services, industry 7997; and those performing outboard motor repair are classified in Services, industry 7699.

374 RAILROAD EQUIPMENT

3743 Railroad Equipment

Establishments primarily engaged in building and rebuilding locomotives (including frames and parts, not elsewhere classified) of any type or gauge; and railroad, street, and

rapid transit cars and car equipment for operation on rails for freight and passenger service. Establishments primarily engaged in manufacturing mining cars are classified in industry 3532. Repair shops, owned and operated by railroads or local transit companies, repairing locomotives or cars for their own use are classified in Transportation, major groups 40 and 41. Establishments primarily engaged in repairing railroad cars on a contract or fee basis are classified in Transportation, industry 4789; and those repairing locomotive engines on a contract or fee basis are classified in Services, industry 7699.

375 MOTORCYCLES, BICYCLES, AND PARTS

3751 Motorcycles, Bicycles, and Parts

Establishments primarily engaged in manufacturing motorcycles, bicycles, and similar equipment, and parts. Establishments primarily engaged in manufacturing children's vehicles, except bicycles, are classified in industry 3944. Establishments primarily engaged in manufacturing golf carts and other similar personnel carriers are classified in industry 3799.

376 GUIDED MISSILES AND SPACE VEHICLES AND PARTS

3761 Guided Missiles and Space Vehicles

Establishments primarily engaged in manufacturing complete guided missiles and space vehicles. This industry also includes establishments owned by guided missile and space vehicle manufacturers and primarily engaged in research and development on these products, whether from enterprise funds or on a contract or fee basis. Establishments primarily engaged in manufacturing guided missile and space vehicle propulsion units and propulsion unit parts are classified in industry 3764; those manufacturing space satellites are classified in industry 3669; those manufacturing guided missile and space vehicle airborne and ground guidance, checkout, and launch electronic systems and components are classified in industry 3812; and those manufacturing guided missile and space vehicle airframes, nose cones, and space capsules are classified in industry 3769. Research and development on guided missiles and space vehicles, on a contract or fee basis, by establishments not owned by guided missile or space vehicle manufacturers are classified in Services, industry 8731.

3764 Guided Missile and Space Vehicle Propulsion Units and Propulsion Unit Parts

Establishments primarily engaged in manufacturing guided missile propulsion units and propulsion unit parts. This industry also includes establishments owned by manufacturers of guided missile and space vehicle propulsion units

and parts and primarily engaged in research and development on such products, whether from enterprise funds or on a contract or fee basis. Research and development on guided missile and space propulsion units, on a contract or fee basis by establishments not owned by manufacturers of guided missile and space vehicle propulsion units and parts, are classified in Services, industry 8731.

3769 Guided Missile and Space Vehicle Parts and Auxiliary Equipment, Not Elsewhere Classified

Establishments primarily engaged in manufacturing guided missile and space vehicle parts and auxiliary equipment, not elsewhere classified. This industry also includes establishments owned by manufacturers of guided missile and space vehicle parts and auxiliary equipment, not elsewhere classified, and primarily engaged in research and development on such products, whether from enterprise funds or on a contract or fee basis. Establishments primarily engaged in manufacturing navigational and guidance systems are classified in industry 3812. Research and development on guided missile and space vehicle parts, on a contract or fee basis by establishments not owned by manufacturers of such products, are classified in Services, industry 8731.

379 MISCELLANEOUS TRANSPORTATION EQUIPMENT

3792 Travel Trailers and Campers

Establishments primarily engaged in manufacturing travel trailers and campers for attachment to passenger cars or other vehicles, pickup coaches (campers) and caps (covers) for mounting on pickup trucks. Travel trailers are generally 35 feet long or less, 8 feet wide or less, and have storage facilities for water and waste. Establishments primarily engaged in manufacturing mobile homes are classified in industry 2451.

3795 Tanks and Tank Components

Establishments primarily engaged in manufacturing complete tanks, specialized components for tanks, and self-propelled weapons. Establishments primarily engaged in manufacturing military vehicles, except tanks and self-propelled weapons, are classified in industry group 371, and those manufacturing tank engines are classified in industry group 351.

3799 Transportation Equipment, Not Elsewhere Classified

Establishments primarily engaged in manufacturing transportation equipment, not elsewhere classified. Establishments primarily engaged in manufacturing industrial trucks,

tractors, trailers, and stackers are classified in industry 3537, and those manufacturing children's vehicles except bicycles are classified in industry 3944.

38 MEASURING, ANALYZING AND CONTROLLING INSTRUMENTS; PHOTOGRAPHIC, MEDICAL AND OPTICAL GOODS; WATCHES AND CLOCKS

This major group includes establishments engaged in manufacturing instruments (including professional and scientific) for measuring, testing, analyzing, and controlling, and their associated sensors and accessories; optical instruments and lenses; surveying and drafting instruments; hydrological, hydrographic, meteorological, and geophysical equipment; search, detection, navigation, and guidance systems and equipment; surgical, medical, and dental instruments, equipment, and supplies; ophthalmic goods; photographic equipment and supplies; and watches and clocks.

381 SEARCH, DETECTION, NAVIGATION, GUIDANCE, AERONAUTICAL, AND NAUTICAL SYSTEMS, INSTRUMENTS, AND EQUIPMENT

3812 Search, Detection, Navigation, Guidance, Aeronautical, and Nautical Systems and Instruments

Establishments primarily engaged in manufacturing search, detection, navigation, guidance, aeronautical, and nautical systems and instruments. Important products of this industry are radar systems and equipment; sonar systems and equipment; navigation systems and equipment; counter-measures equipment; aircraft and missile control systems and equipment; flight and navigation sensors, transmitters, and displays; gyroscopes; airframe equipment instruments; and speed, pitch, and roll navigational instruments and systems. Establishments primarily engaged in manufacturing aircraft engine instruments or meteorological systems and equipment, including weather tracking equipment, are classified in industry 3829.

382 LABORATORY APPARATUS AND ANALYTICAL, OPTICAL, MEASURING, AND CONTROLLING INSTRUMENTS

3821 Laboratory Apparatus and Furniture

Establishments primarily engaged in manufacturing laboratory apparatus and furniture. Important products of this industry include laboratory balances and scales, laboratory furnaces and ovens, laboratory centrifuges, and various components, parts, and accessories for laboratory apparatus. Laboratory instruments are classified elsewhere, generally in other industries of industry group 382.

3822 Automatic Controls for Regulating Residential and Commercial Environments and Appliances

Establishments primarily engaged in manufacturing temperature and related controls for heating and air-conditioning installations and refrigeration applications, which are electrically, electronically, or pneumatically actuated, and which measure and control variables such as temperature and humidity; and automatic regulators used as components of household appliances. Establishments primarily engaged in manufacturing industrial process controls are classified in industry 3823; those manufacturing motor control switches are classified in industry 3625; those manufacturing switches for household appliances are classified in industry 3643; and those manufacturing appliance timers are classified in industry 3873.

3823 Industrial Instruments for Measurement, Display, and Control of Process Variables; and Related Products

Establishments primarily engaged in manufacturing industrial instruments and related products for measuring, displaying (indicating and/or recording), transmitting, and controlling process variables in manufacturing, energy conversion, and public service utilities. These instruments operate mechanically, pneumatically, electronically, or electrically to measure process variables, such as temperature, humidity, pressure, vacuum, combustion, flow, level, viscosity, density, acidity, alkalinity, specific gravity, gas and liquid concentration, sequence, time interval, mechanical motion, and rotation. Establishments primarily engaged in manufacturing electrical integrating meters are classified in industry 3825; those manufacturing residential and commercial comfort controls are classified in industry 3822; those manufacturing all liquid-in-glass and bimetal thermometers and glass hydrometers are classified in industry 3829; those manufacturing recorder charts are classified in industry group 275; and those manufacturing analytical and optical instruments are classified in industries 3826 and 3827.

3824 Totalizing Fluid Meters and Counting Devices

Establishments primarily engaged in manufacturing totalizing (registering) meters monitoring fluid flows, such as watermeters and gasmeters; and producers of mechanical and electromechanical counters and associated metering devices. Establishments primarily engaged in manufacturing electricity integrating meters and electronic frequency counters are classified in industry 3825, and those manufacturing industrial process instruments are classified in industry 3823.

3825 Instruments for Measuring and Testing of Electricity and Electrical Signals

Establishments primarily engaged in manufacturing instruments for measuring the characteristics of electricity and

electrical signals, such as voltmeters, ammeters, wattmeters, watt-hour meters, demand meters, and equipment for testing the electrical characteristics of electrical, radio, and communication circuits and of internal combustion engines. Establishments primarily engaged in the manufacturing of electronic checkout, monitoring, evaluating, and other electronic support equipment for electronic navigational, radar, and sonar systems are classified in industry 3812, and those manufacturing similar equipment for communications systems classified in industry group 366.

3826 Laboratory Analytical Instruments

Establishments primarily engaged in manufacturing laboratory instruments and instrumentation systems for chemical or physical analysis of the composition or concentration of samples of solid, fluid, gaseous, or composite material. Establishments primarily engaged in manufacturing instruments for monitoring and analyzing continuous samples from medical patients are classified in industry 3845, and from industrial process streams are classified in industry 3823.

3827 Optical Instruments and Lenses

Establishments primarily engaged in manufacturing instruments and apparatus that measure an optical property and optically project, measure, or magnify an image, such as binoculars, microscopes, prisms, and lenses. Included are establishments primarily engaged in manufacturing optical sighting and fire control equipment.

3829 Measuring and Controlling Devices, Not Elsewhere Classified

Establishments primarily engaged in manufacturing measuring and controlling devices, not elsewhere classified, including meteorological instruments. Important products of this industry are physical properties testing equipment, nuclear radiation detection and monitoring instrumentation, aircraft engine instruments (except flight), and liquid-in-glass and bimetal thermometers. Also included in this industry are establishments primarily engaged in manufacturing surveying and drafting instruments, such as alidades, transits, sextants, theodolites, slide rules, and T-squares.

384 SURGICAL, MEDICAL, AND DENTAL INSTRUMENTS AND SUPPLIES

3841 Surgical and Medical Instruments and Apparatus

Establishments primarily engaged in manufacturing medical, surgical, ophthalmic, and veterinary instruments and apparatus. Establishments primarily engaged in manufacturing surgical and orthopedic appliances are classified in industry 3842; those manufacturing electrotherapeutic and electromedical apparatus are classified in industry 3845; and those manufacturing X-ray apparatus are classified in industry 3844.

3842 Orthopedic, Prosthetic, and Surgical Appliances and Supplies

Establishments primarily engaged in manufacturing orthopedic, prosthetic, and surgical appliances and supplies, arch supports and other foot appliances; fracture appliances, elastic hosiery, abdominal supporters, braces, and trusses; bandages; surgical gauze and dressings; sutures; adhesive tapes and medicated plasters; and personal safety appliances and equipment. Establishments primarily engaged in manufacturing surgical and medical instruments are classified in industry 3841. Establishments primarily engaged in manufacturing orthopedic or prosthetic appliances and in the personal fitting to the individual prescription by a physician are classified in Retail Trade, industry 5999.

3843 Dental Equipment and Supplies

Establishments primarily engaged in manufacturing artificial teeth, dental metals, alloys, and amalgams, and a wide variety of equipment, instruments, and supplies used by dentists, dental laboratories, and dental colleges. Dental laboratories constructing artificial dentures, bridges, inlays, and other dental restorations on specifications from dentists are classified in Services, industry 8072.

3844 X-Ray Apparatus and Tubes and Related Irradiation Apparatus

Establishments primarily engaged in manufacturing radiographic X-ray, fluoroscopic X-ray, and therapeutic X-ray apparatus and tubes for medical, industrial, research, and control applications, or in manufacturing other irradiation equipment, including gamma and beta-ray equipment.

3845 Electromedical and Electrotherapeutic Apparatus

Establishments primarily engaged in manufacturing electromedical and electrotherapeutic apparatus. Establishments primarily engaged in manufacturing electrotherapeutic lamp units for ultraviolet and infrared radiation are classified in industry 3641.

385 OPHTHALMIC GOODS

3851 Ophthalmic Goods

Establishments primarily engaged in manufacturing ophthalmic frames, lenses, and sunglass lenses. Establishments primarily engaged in manufacturing molded glass blanks are classified in industry 3229. Establishments primarily engaged in grinding lenses and fitting glasses to prescription are classified in Retail Trade, industry 5995.

386 PHOTOGRAPHIC EQUIPMENT AND SUPPLIES

3861 Photographic Equipment and Supplies

Establishments primarily engaged in manufacturing: (1) photographic apparatus, equipment, parts, attachments, and accessories, such as still and motion picture camera

and projection apparatus; photocopy and microfilm equipment; blueprinting and diazotype (white printing) apparatus and equipment; and other photographic equipment; and (2) sensitized film, paper, cloth, and plates, and prepared photographic chemicals for use therewith. Establishments primarily engaged in manufacturing photographic paper stock (unsensitized), and paper mats, mounts, easels, and folders for photographic use, are classified in major group 26; those manufacturing photographic lenses are classified in industry 3827; those manufacturing photographic glass are classified in major group 32; those manufacturing chemicals for technical purposes, not specifically prepared and packaged for use in photography, are classified in major group 28; and those manufacturing photographic flash, flood, enlarger, and projection lamp bulbs are classified in industry 3641.

387 WATCHES, CLOCKS, CLOCKWORK OPERATED DEVICES, AND PARTS

3873 Watches, Clocks, Clockwork Operated Devices, and Parts

Establishments primarily engaged in manufacturing clocks (including electric), watches, watchcases, mechanisms for clockwork operated devices, and clock and watch parts. This industry includes establishments primarily engaged in assembling clocks and watches from purchased movements and cases. Establishments primarily engaged in manufacturing timeclocks are classified in industry 3579; those manufacturing glass crystals are classified in industry 3231; and those manufacturing plastics crystals are classified in industry 3089.

39 MISCELLANEOUS MANUFACTURING INDUSTRIES

This major group includes establishments primarily engaged in manufacturing products not classified in any other manufacturing major group. Industries in this group fall into the following categories: jewelry, silverware, and plated ware; musical instruments; dolls, toys, games, and sporting and athletic goods; pens, pencils, and artists' materials; buttons, costume novelties, miscellaneous notions; brooms and brushes; caskets; and other miscellaneous manufacturing industries.

391 JEWELRY, SILVERWARE, AND PLATED WARE

3911 Jewelry, Precious Metal

Establishments primarily engaged in manufacturing jewelry and other articles worn on or carried about the person, made of precious metals (including base metals clad or rolled with precious metals), with or without stones. Products of this industry include cigarette cases and lighters,

vanity cases and compacts; trimmings for umbrellas and canes; and jewel settings and mountings. Establishments primarily engaged in manufacturing costume jewelry from nonprecious metals and other materials are classified in industry 3961.

3914 Silverware, Plated Ware, and Stainless Steel Ware

Establishments primarily engaged in manufacturing flatware (including knives, forks, and spoons), hollowware, ecclesiastical ware, trophies, trays, and related products made of sterling silver; of metal plated with silver, gold, or other metal; of nickel silver; of pewter; or of stainless steel. Also included are establishments primarily engaged in manufacturing table flatware with blades and handles of metal. Establishments primarily engaged in manufacturing other metal cutlery are classified in industry 3421, and those manufacturing metal trophies, trays and toilet ware, other than silver, nickel silver, pewter, stainless steel, and plated, are classified in industry 3499.

3915 Jewelers' Findings and Materials, and Lapidary Work

Establishments primarily engaged in manufacturing unassembled jewelry parts and stock shop products, such as sheet, wire, and tubing; and establishments of lapidaries primarily engaged in cutting, slabbing, tumbling, carving, engraving, polishing or faceting stones from natural or manmade precious or semiprecious gem raw materials, either for sale or on a contract basis for the trade; in recutting, repolishing, and setting gem stones; or in cutting, drilling, and otherwise preparing jewels for instruments, dies, watches, chronometers, and other industrial uses. This industry includes the drilling, sawing, and peeling of real or cultured pearls. Establishments primarily engaged in manufacturing synthetic stones for gem stones and industrial use are classified in industry 3299, and those manufacturing artificial pearls are classified in industry 3961.

393 MUSICAL INSTRUMENTS

3931 Musical Instruments

Establishments primarily engaged in manufacturing pianos, with or without player attachments; organs; other musical instruments; and parts and accessories for musical instruments.

394 DOLLS, TOYS, GAMES AND SPORTING AND ATHLETIC GOODS

3942 Dolls and Stuffed Toys

Establishments primarily engaged in manufacturing dolls, doll parts, and doll clothing, except doll wigs. Establishments primarily engaged in manufacturing stuffed toys are also included in this industry. Doll wigs are classified in industry 3999.

3944 Games, Toys, and Children's Vehicles, Except Dolls and Bicycles

Establishments primarily engaged in manufacturing games and game sets for adults and children, and mechanical and nonmechanical toys. Important products of this industry include games; toy furniture; doll carriages and carts; construction sets; mechanical trains; toy guns and rifles; baby carriages and strollers; children's tricycles, coaster wagons, play cars, sleds, and other children's outdoor wheel goods and vehicles, except bicycles. Included are establishments primarily engaged in manufacturing electronic board games; electronic toys; and electronic game machines, except coin-operated. Establishments primarily engaged in manufacturing dolls and stuffed toys are classified in industry 3942; those manufacturing bicycles are classified in industry 3751; those manufacturing sporting and athletic goods for children and adults are classified in industry 3949; those manufacturing coin-operated game machines are classified in industry 3999; those manufacturing electronic video game cartridges are classified in Services, industry 7372; and those manufacturing rubber toys, except dolls, are classified in industry 3069.

3949 Sporting and Athletic Goods, Not Elsewhere Classified

Establishments primarily engaged in manufacturing sporting and athletic goods, not elsewhere classified, such as fishing tackle; golf and tennis goods; baseball, football, basketball, and boxing equipment; roller skates and ice skates; gymnasium and playground equipment; billiard and pool tables; and bowling alleys and equipment. Establishments primarily engaged in manufacturing athletic apparel are classified in major group 23; those manufacturing athletic footwear are classified in industries 3021 and 3149; those manufacturing small arms ammunition are classified in industry 3482; and those manufacturing small arms are classified in industry 3484.

395 PENS, PENCILS, AND OTHER ARTISTS' MATERIALS

3951 Pens, Mechanical Pencils, and Parts

Establishments primarily engaged in manufacturing pens (including ball point pens), refill cartridges, mechanical pencils, fine and broad tipped markers, and parts.

3952 Lead Pencils, Crayons, and Artists' Materials

Establishments primarily engaged in manufacturing lead pencils, pencil leads, and crayons; and materials and equipment for artwork, such as airbrushes, drawing tables and boards, palettes, sketch boxes, pantographs, artists' colors and waxes, pyrography goods, drawing inks, and

drafting materials. Establishments primarily engaged in manufacturing mechanical pencils are classified in industry 3951, and those manufacturing drafting instruments are classified in industry 3829.

3953 Marking Devices

Establishments primarily engaged in manufacturing rubber and metal hand-stamps, dies, and seals; steel letters and figures; and stencils for use in painting or marking. Establishments primarily engaged in manufacturing felt tip markers are classified in industry 3951.

3955 Carbon Paper and Inked Ribbons

Establishments primarily engaged in manufacturing carbon paper; spirit or gelatin process and other stencil paper; and inked or carbon ribbons for business machines.

396 COSTUME JEWELRY, COSTUME NOVELTIES, BUTTONS, AND MISCELLANEOUS NOTIONS, EXCEPT PRECIOUS METAL

3961 Costume Jewelry and Costume Novelties, Except Precious Metal

Establishments primarily engaged in manufacturing costume jewelry, costume novelties, and ornaments made of all materials, except precious metal, precious or semiprecious stones, and rolled goldplate and gold-filled materials. Establishments primarily engaged in manufacturing jewelry of precious and semiprecious metal are classified in 3911; those manufacturing leather compacts and vanity cases are classified in industry 3172; and those manufacturing synthetic stones for gem stone and industrial use are classified in industry 3299.

3965 Fasteners, Buttons, Needles, and Pins

Establishments primarily engaged in manufacturing notions, such as slide and snap fasteners and zippers, machine and hand needles, pins, hooks and eyes, buckles, buttons, button parts, and button blanks. Establishments primarily engaged in manufacturing these products from precious metals or from precious or semiprecious stones are classified in industry 3911.

399 MISCELLANEOUS MANUFACTURING INDUSTRIES

3991 Brooms and Brushes

Establishments primarily engaged in manufacturing household, industrial, and street sweeping brooms; and brushes, such as paintbrushes, toothbrushes, toilet brushes, and household and industrial brushes.

3993 Signs and Advertising Specialties

Establishments primarily engaged in manufacturing electrical, mechanical, cutout, or plate signs and advertising displays, including neon signs, and advertising specialties. Sign painting shops doing business on a custom basis are classified in Services, industry 7389. Establishments primarily engaged in manufacturing electric signal equipment are classified in industry 3669, and those manufacturing commercial lighting fixtures are classified in industry 3646.

3995 Burial Caskets

Establishments primarily engaged in manufacturing burial caskets and cases, including shipping cases, of wood or other material except concrete.

3996 Linoleum, Asphalted-Felt-Base, and Other Hard Surface Floor Coverings, Not Elsewhere Classified

Establishments primarily engaged in manufacturing linoleum, asphalted-felt-base, and other hard surface floor coverings, not elsewhere classified. Establishments primarily engaged in manufacturing rubber floor coverings are classified in industry 3069, and those manufacturing cork floor and wall tile are classified in industry 2499.

3999 Manufacturing Industries, Not Elsewhere Classified

Establishments primarily engaged in manufacturing miscellaneous fabricated products, including beauty shop and barber shop equipment; hair work; tobacco pipes and cigarette holders; coin-operated amusement machines; matches; candles; lamp shades; feathers; artificial trees and flowers made from all materials, except glass; dressed and dyed furs; umbrellas, parasols, and canes; and other articles, not elsewhere classified.

APPENDIX D. Report Forms

DUE DATE: FEBRUARY 15, 1988

OMB No. 0607-0535: Approval Expires December 31, 1988

FORM NC-9901 (Items 1-4)

U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS

NOTICE — Response to this inquiry is required by law (Title 13, U.S. Code). By the same law, your report to the Census Bureau is confidential. It may be seen only by sworn Census employees and may be used only for statistical purposes. The law also provides that copies retained in your files are immune from legal process.

In correspondence pertaining to this report please refer to this Census File Number (CFN)

1987 ECONOMIC CENSUSES REPORT OF ORGANIZATION

Please correct errors in name, address, and Zip Code. Enter street and number if not shown.

Census use only																			
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Important — Please read

Please complete this report by February 15, 1988 and
RETURN ORIGINAL COPY TO —

BUREAU OF THE CENSUS
1201 East Tenth Street
Jeffersonville, Indiana 47134

Item 1 — CERTIFICATION

Name of person to contact regarding this report	Address (if different from above address)	Telephone		
		Area code	Number	Extension
This report is substantially accurate.				
Signature of authorized person	Title	Date		

Item 2 — COMPANY OWNERSHIP OR CONTROL — DOMESTIC

Does another U.S. (domestic) company own more than 50 percent of the voting stock of your company OR have the power to control the management and policies of your company?

- 1 ☐ YES — Enter the following information on the owning or controlling company →
2 ☐ NO — Go to Item 3.

Name of owning or controlling company	Home office address (Number and street, city, state, and ZIP Code)	Employer Identification Number of owning or controlling company

Percent of voting stock owned — Mark (X) one → 1 ☐ Less than 50% 2 ☐ 50% 3 ☐ More than 50%

Item 3 — COMPANY OWNERSHIP OR CONTROL — FOREIGN

Does a foreign entity (company, individual, government, etc.) own directly or indirectly 10 percent or more of the voting stock or other equity rights of your company?

- 1 ☐ YES — Enter the following information on the owning entity →
2 ☐ NO — Go to Item 4.

Name of foreign beneficial owner	Home office address (Number and street, city, country)

Percent of ownership (direct or indirect) — Mark (X) one → 1 ☐ Less than 10% 2 ☐ 10-24% 3 ☐ 25-49% 4 ☐ 50% 5 ☐ 51-99% 6 ☐ 100%

Item 4 — FOREIGN AFFILIATES

Does this company alone, or with its domestic affiliates, own 10 percent or more of the voting stock of an incorporated foreign business enterprise, or an equivalent interest in an unincorporated foreign business enterprise, including ownership of real estate?

- 1 ☐ YES 2 ☐ NO

☆ U.S. Government Printing Office: 1987-175-888

Refer to this
CENSUS FILE NUMBER
in any correspondence
pertaining to this report**1987 ECONOMIC CENSUSES
REPORT OF ORGANIZATION****Item 5A — ESTABLISHMENTS OF YOUR COMPANY AND ITS SUBSIDIARIES, AND THEIR 1987 EMPLOYMENT AND PAYROLL**

This item should include an up-to-date list of all establishments of your company and its subsidiaries for which separate establishment reports are not required for the 1987 Economic Censuses. For your convenience the prelisted establishments have been grouped in the following sequence: Employer Identification Number, major activity, and geographic location. Please bring this list up to date as follows:

- **Column (a)** — Correct any errors or omissions in the prelisted information.

- **Column (b)**, 1987 establishment data — Report number of employees and payroll for each establishment (including part-year operations). Please do not combine data for establishments. If book figures are not available for providing employment and payroll data for each establishment, please provide your best estimates.
- **Column (c)** — Report status of each establishment as of the end of 1987. Please read the definitions and instructions on the reverse side before completing this item.

Line No.	Employer Identification (EI) Number, establishment name, address of physical location (including ZIP Code), and major activity <i>Add store or plant number, if any, and correct any errors or omissions</i>		1987 establishment data <i>Report the number of employees and payroll for each establishment (including part-year operations)</i>		Status of establishment at end of 1987 <i>Mark (X) one box and complete as indicated</i>					
	(a)		(b)		(c)					
Census use only	Employer ID number	Major activity	Employees (during pay period including March 12, 1987)	(Number)		1 <input type="checkbox"/> In operation 2 <input type="checkbox"/> Idle or inactive (but still owned) → Month Year 3 <input type="checkbox"/> Closed (no new owner or operator), dismantled, or destroyed on → 4 <input type="checkbox"/> Sold or leased to another operator — Give date at right — AND enter name, etc., below →				
	Name	Store or plant number		Payroll for 1st quarter of 1987 before deductions	Mil. Thou. Dol.		Name of new owner or operator			
	Physical location — Number and street		Total annual payroll for 1987 before deductions			Number and street				
	City	State					ZIP	City	State	ZIP Code
	Census file number	TO	IND	TAB	WT	GEO	SC	TE	CCS	NID
Census use only	Employer ID number	Major activity	Employees (during pay period including March 12, 1987)	(Number)		1 <input type="checkbox"/> In operation 2 <input type="checkbox"/> Idle or inactive (but still owned) → Month Year 3 <input type="checkbox"/> Closed (no new owner or operator), dismantled, or destroyed on → 4 <input type="checkbox"/> Sold or leased to another operator — Give date at right — AND enter name, etc., below →				
	Name	Store or plant number		Payroll for 1st quarter of 1987 before deductions	Mil. Thou. Dol.		Name of new owner or operator			
	Physical location — Number and street		Total annual payroll for 1987 before deductions			Number and street				
	City	State					ZIP	City	State	ZIP Code
	Census file number	TO	IND	TAB	WT	GEO	SC	TE	CCS	NID
Census use only	Employer ID number	Major activity	Employees (during pay period including March 12, 1987)	(Number)		1 <input type="checkbox"/> In operation 2 <input type="checkbox"/> Idle or inactive (but still owned) → Month Year 3 <input type="checkbox"/> Closed (no new owner or operator), dismantled, or destroyed on → 4 <input type="checkbox"/> Sold or leased to another operator — Give date at right — AND enter name, etc., below →				
	Name	Store or plant number		Payroll for 1st quarter of 1987 before deductions	Mil. Thou. Dol.		Name of new owner or operator			
	Physical location — Number and street		Total annual payroll for 1987 before deductions			Number and street				
	City	State					ZIP	City	State	ZIP Code
	Census file number	TO	IND	TAB	WT	GEO	SC	TE	CCS	NID
Census use only	Employer ID number	Major activity	Employees (during pay period including March 12, 1987)	(Number)		1 <input type="checkbox"/> In operation 2 <input type="checkbox"/> Idle or inactive (but still owned) → Month Year 3 <input type="checkbox"/> Closed (no new owner or operator), dismantled, or destroyed on → 4 <input type="checkbox"/> Sold or leased to another operator — Give date at right — AND enter name, etc., below →				
	Name	Store or plant number		Payroll for 1st quarter of 1987 before deductions	Mil. Thou. Dol.		Name of new owner or operator			
	Physical location — Number and street		Total annual payroll for 1987 before deductions			Number and street				
	City	State					ZIP	City	State	ZIP Code
	Census file number	TO	IND	TAB	WT	GEO	SC	TE	CCS	NID
Census use only	Employer ID number	Major activity	Employees (during pay period including March 12, 1987)	(Number)		1 <input type="checkbox"/> In operation 2 <input type="checkbox"/> Idle or inactive (but still owned) → Month Year 3 <input type="checkbox"/> Closed (no new owner or operator), dismantled, or destroyed on → 4 <input type="checkbox"/> Sold or leased to another operator — Give date at right — AND enter name, etc., below →				
	Name	Store or plant number		Payroll for 1st quarter of 1987 before deductions	Mil. Thou. Dol.		Name of new owner or operator			
	Physical location — Number and street		Total annual payroll for 1987 before deductions			Number and street				
	City	State					ZIP	City	State	ZIP Code
	Census file number	TO	IND	TAB	WT	GEO	SC	TE	CCS	NID

FORM NC-9920

U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS**NOTICE** — Response to this inquiry is required by law (Title 13, U.S. Code). By the same law, your report to the Census Bureau is confidential. It may be seen only by sworn Census employees and may be used only for statistical purposes. The law also provides that copies retained in your files are immune from legal process.

In correspondence pertaining to this report, please refer to this Census File Number (CFN)

1987 ECONOMIC CENSUSES
LISTING OF ADDITIONAL ESTABLISHMENTS**YOUR FILE COPY**CENSUS
USE
ONLY

Please correct errors in name, address, and ZIP Code. Enter street end number if not shown.

Item 1 — Does your organization or any of its subsidiaries have any establishments located in the United States or any of its territories which are not accounted for on other report forms in this mailing package?☐ YES — Go to item 2☐ NO — Complete CERTIFICATION on reverse side and return report**Item 2 — LISTING OF ADDITIONAL ESTABLISHMENTS****Column (a)** — Complete this column for each establishment that you list.**Column (b)** — Mark (X) the box which best describes the major activity of each establishment using the following code box descriptions:

- 1 — Agricultural production
- 2 — Agricultural services
- 3 — Minerals extraction or ore processing
- 4 — Mining services or oil and gas field services
- 5 — Construction
- 6 — Merchant wholesalers
- 7 — Commission merchant/broker/agent
- 8 — Manufacturers' sales branches, manufacturers' sales offices
- 9 — Manufacturing
- 10 — Finance, insurance, or real estate

- 11 — Retail
- 12 — Retail concessions/departments in retail stores
- 13 — Transportation, communications, and public utilities
- 14 — Legal, educational, or health services
- 15 — Services
- 16 — Central administrative office: accounting, purchasing, legal activities for your own company
- 17 — Other auxiliary establishments such as storage warehouses and research laboratories primarily providing service to your own or affiliated company rather than customers or clients
- 18 — Other — Specify major activity in column (c) below.

Column (c) — List in order of importance the principal products mined or made; kinds of wholesale or retail business; types of services provided; kinds of construction work done; or the types of crops grown or animals raised, etc.**Column (d)** — Complete as indicated.**NOTE** — Please return this report form whether or not you report additional establishments.

Employer Identification (EI) Number, establishment name, your store or plant number, if any, and address of physical location (including ZIP Code)				Major activity Mark (X) one box from the above descriptions	Description of major activity or principal products or services List in order of importance	Operating status
(a)				(b)	(c)	(d)
Employer Identification Number				1 <input type="checkbox"/> 10 <input type="checkbox"/>		Date establishment opened or is expected to open and expected employment
Name				2 <input type="checkbox"/> 11 <input type="checkbox"/>		Month Year Expected employment
Physical location — Number and street				3 <input type="checkbox"/> 12 <input type="checkbox"/>		Was this establishment acquired from another company?
City State ZIP Code				4 <input type="checkbox"/> 13 <input type="checkbox"/>		<input type="checkbox"/> Yes — Enter date —> Month Year
CENSUS USE ONLY				5 <input type="checkbox"/> 14 <input type="checkbox"/>		<input type="checkbox"/> No
Census file number SC TO IND FORM				6 <input type="checkbox"/> 15 <input type="checkbox"/>		Name and address of former owner or operator
TAB WT CCS OID				7 <input type="checkbox"/> 16 <input type="checkbox"/>		
Employer Identification Number				8 <input type="checkbox"/> 17 <input type="checkbox"/>		
Name				9 <input type="checkbox"/> 18 <input type="checkbox"/>		
Physical location — Number and street						Date establishment opened or is expected to open and expected employment
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CENSUS USE ONLY						Was this establishment acquired from another company?
Census file number SC TO IND FORM						<input type="checkbox"/> Yes — Enter date —> Month Year
TAB WT CCS OID						<input type="checkbox"/> No
Employer Identification Number						Name and address of former owner or operator
Name						

Item 2 — LISTING OF ADDITIONAL ESTABLISHMENTS — Continued

Employer Identification (EI) Number, establishment name, your store or plant number, if any, and address of physical location (including ZIP Code)				Major activity Mark (X) one box from the above descriptions	Description of major activity or principal products or services List in order of importance	Operating status
(a)				(b)	(c)	(d)
Employer Identification Number				1 <input type="checkbox"/> 10 <input type="checkbox"/>		Date establishment opened or is expected to open and expected employment
Name				2 <input type="checkbox"/> 11 <input type="checkbox"/>		Month Year Expected employment
Store or plant number				3 <input type="checkbox"/> 12 <input type="checkbox"/>		
Physical location — Number and street				4 <input type="checkbox"/> 13 <input type="checkbox"/>		Was this establishment acquired from another company?
City				5 <input type="checkbox"/> 14 <input type="checkbox"/>		<input type="checkbox"/> Yes — Enter date → Month Year
State				6 <input type="checkbox"/> 15 <input type="checkbox"/>		<input type="checkbox"/> No
ZIP Code				7 <input type="checkbox"/> 16 <input type="checkbox"/>		Name and address of former owner or operator
CENSUS USE ONLY				8 <input type="checkbox"/> 17 <input type="checkbox"/>		
Census file number				9 <input type="checkbox"/> 18 <input type="checkbox"/>		
SC TO IND FORM						
TAB WT CCS OID						
Employer Identification Number				1 <input type="checkbox"/> 10 <input type="checkbox"/>		Date establishment opened or is expected to open and expected employment
Name				2 <input type="checkbox"/> 11 <input type="checkbox"/>		Month Year Expected employment
Store or plant number				3 <input type="checkbox"/> 12 <input type="checkbox"/>		
Physical location — Number and street				4 <input type="checkbox"/> 13 <input type="checkbox"/>		Was this establishment acquired from another company?
City				5 <input type="checkbox"/> 14 <input type="checkbox"/>		<input type="checkbox"/> Yes — Enter date → Month Year
State				6 <input type="checkbox"/> 15 <input type="checkbox"/>		<input type="checkbox"/> No
ZIP Code				7 <input type="checkbox"/> 16 <input type="checkbox"/>		Name and address of former owner or operator
CENSUS USE ONLY				8 <input type="checkbox"/> 17 <input type="checkbox"/>		
Census file number				9 <input type="checkbox"/> 18 <input type="checkbox"/>		
SC TO IND FORM						
TAB WT CCS OID						
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Name				2 <input type="checkbox"/> 11 <input type="checkbox"/>		Month Year Expected employment
Store or plant number				3 <input type="checkbox"/> 12 <input type="checkbox"/>		
Physical location — Number and street				4 <input type="checkbox"/> 13 <input type="checkbox"/>		Was this establishment acquired from another company?
City				5 <input type="checkbox"/> 14 <input type="checkbox"/>		<input type="checkbox"/> Yes — Enter date → Month Year
State				6 <input type="checkbox"/> 15 <input type="checkbox"/>		<input type="checkbox"/> No
ZIP Code				7 <input type="checkbox"/> 16 <input type="checkbox"/>		Name and address of former owner or operator
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TAB WT CCS OID						
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CENSUS USE ONLY				8 <input type="checkbox"/> 17 <input type="checkbox"/>		
Census file number				9 <input type="checkbox"/> 18 <input type="checkbox"/>		
SC TO IND FORM						
TAB WT CCS OID						

Item 3
CERTIFICATION

Name of person to contact regarding this report

Address (if different from label address)

Area code

Telephone number

Extension

This report (including attached continuation pages) is substantially accurate and has been prepared in accordance with instructions.

Signature of authorized person

Title

Date



DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS

FORM

NC-9923

1987 ECONOMIC CENSUSES

GENERAL SCHEDULE

OMB NO. 0607-0548: Approval Expires December 31, 1988

NOTICE — Response to this inquiry is required by law (title 13, U.S. Code). By the same law, your report to the Census Bureau is confidential. It may be seen only by sworn Census employees and may be used only for statistical purposes. The law also provides that copies retained in your files are immune from legal process.

Please complete this form and RETURN TO

BUREAU OF THE CENSUS
1201 East Tenth Street
Jeffersonville, IN 47134

DUE DATE: 30 DAYS AFTER RECEIPT

The Bureau of the Census is now updating the industrial classifications and physical locations of organizations in the United States. Please answer the questions on this form and return it in the enclosed envelope within 30 days.

NOTE — Please read the accompanying instructions before answering the questions.

In correspondence pertaining to this report, please refer to this Census File Number (CFN)

Employer Identification (EI) Number

NC-9923

Please correct errors in name, address, and ZIP Code. ENTER street and number if not shown.

Item 1 — EMPLOYER IDENTIFICATION NUMBER

Is the Employer Identification (EI) Number shown in the label the SAME as that used for this establishment on its latest 1987 Employer's Quarterly Federal Tax Return, Treasury Form 941?

- 094 1 ☐ YES (9 digits)
2 ☐ NO — Enter current EI Number →

Item 2 — PHYSICAL LOCATION OF ESTABLISHMENT

Answer items a, b, c, and d

NOTE: P.O. boxes or rural routes are not physical locations.

- a. ☐ Same as shown in mailing label. If different, indicate change. ☒

NUMBER AND STREET

CITY, TOWN, VILLAGE, ETC.

STATE

ZIP CODE

- b. Is this establishment physically located inside the legal boundaries of the city, town, village, etc.?

- 095 1 ☐ YES
2 ☐ NO
3 ☐ No legal boundaries
4 ☐ Don't know

- c. Type of municipality where physically located

- 096 1 ☐ City, village, or borough
2 ☐ Town or township
3 ☐ Other or don't know

- d. Name of county where physically located

HOW TO REPORT DOLLAR FIGURES

Value figures may be reported in dollars or rounded to thousands.

Example: If a figure is \$1,125,628, report either **Preferred** 1,125,628 or **Acceptable** 1,126,000

Mil- lions (000)	Thou- sands (000)	Dol- lars (000)
1	126	
1	125	628

Mil.	Thou.	Dol.
010		

Item 3 — DOLLAR VOLUME OF BUSINESS IN 1987

Sales of merchandise and other operating receipts/revenues EXCLUDING sales (or other) taxes collected

Item 7 — REMARKS

Item 4 — SOURCE OF SALES, RECEIPTS, OR REVENUE

List below the principal lines of merchandise sold, construction work done, products produced or services provided, and indicate the approximate percentage each was of the total dollar volume of business in 1987 as reported in item 3 (e.g., gasoline 85%, auto repairs 10%, oil 5%).

Source	Percent
	%
	%
	%
	%
	%
	%
	%
TOTAL — Should equal 100%	100 %

Item 5 — MATERIALS CONSUMED

If you are a manufacturer, list the primary materials consumed in producing the manufactured products.

Item 6 — CLASS OF CUSTOMER

To whom do you sell most of your products or provide your services?

- To the general public (household consumers and individuals)..... 1 ☐
To retail or wholesale establishments..... 2 ☐
To construction contractors..... 3 ☐
To institutional, industrial, commercial, professional, government, or farm users..... 4 ☐
Other customers — Specify..... 5 ☐

Item 8 — BUSINESS OR ACTIVITYMark (X) the **ONE** box which best describes the **PRINCIPAL** activity of this establishment in 1987.070 881100 2 ☐ **Private household** (employing domestic help, e.g., cooks, maids, gardeners, secretaries, etc.)**RETAIL TRADE (R)**

- 553120 7 ☐ Automotive and home supply store
 581300 1 ☐ Bar or tavern
 581230 0 ☐ Cafeteria
 573230 0 ☐ Computer and software store
 581250 8 ☐ Contract feeding
 541120 2 ☐ Convenience food store
 554110 7 ☐ Gasoline service station
 594700 7 ☐ Gift, novelty, or souvenir shop
 541110 3 ☐ Grocery store
 581260 7 ☐ Ice cream/frozen yogurt stand
 592100 2 ☐ Liquor store
 581210 2 ☐ Restaurant (full service)
 581240 9 ☐ Restaurant (limited menu, e.g., fast food)
 581220 1 ☐ Social caterer
 553110 8 ☐ Tire, battery, and accessory store
 554120 6 ☐ Truck stop
 999999 6 ☐ Other kind of retail business — *Specify type* ↘

SERVICE (S)

- 893100 8 ☐ Accounting, auditing, or bookkeeping service
 891110 9 ☐ Architectural service
 811110 6 ☐ Attorney's office
 753100 7 ☐ Automotive body shop, except paint shop
 753810 1 ☐ Automotive repair shop, general
 723100 4 ☐ Beauty shop
 734900 4 ☐ Building cleaning, maintenance, and janitorial service
 835100 9 ☐ Child day care service
 866100 1 ☐ Church, synagogue, convent, monastery, etc.
 864100 3 ☐ Civic, social, or fraternal association
 737920 9 ☐ Computer maintenance and repair
 737910 0 ☐ Computer rental or leasing
 739210 3 ☐ Construction management service
 737210 5 ☐ Custom computer programming service
 802100 8 ☐ Dentist's office
 739240 0 ☐ Economic and sociological research service
 891120 8 ☐ Engineering service
 863100 4 ☐ Labor union or organization
 739210 3 ☐ Management and administrative service
 739230 1 ☐ Management consulting service
 801110 8 ☐ Medical doctor's office (M.D. degree only)
 701130 7 ☐ Motel or tourist court
 733200 0 ☐ Photocopy service
 737220 4 ☐ Prepackaged computer software
 739220 2 ☐ Public relations service
 891130 7 ☐ Surveying service
 739450 5 ☐ Video tape rental
 769200 7 ☐ Welding repair
 999999 6 ☐ Other kind of service — *Specify type* ↘

WHOLESALE TRADE (W)

- 515300 2 ☐ Country or terminal grain elevator wholesaler
 514100 7 ☐ General line grocery wholesaler
 517111 1 ☐ Petroleum bulk plant or terminal wholesaler
☐ Agent or broker
☐ Merchant wholesaler
☐ Other type of wholesaler — *Specify type* ↘

FINANCE, INSURANCE, AND REAL ESTATE (F)

- 641100 3 ☐ Insurance agent or broker
 651300 6 ☐ Owner-operator of apartment building
 637100 9 ☐ Pension, health, or welfare fund
 653100 8 ☐ Real estate agent or manager
 655200 4 ☐ Subdivider and developer, except cemetery
 673200 2 ☐ Trust: Educational, religious, and charitable
 673300 0 ☐ Trust, except educational, religious, and charitable
 999999 6 ☐ Other kind of finance, insurance, or real estate — *Specify type* ↘

TRANSPORTATION (T)**Local trucking without storage**

- 421240 3 ☐ Agricultural products
 421270 9 ☐ Dump trucking
 421260 1 ☐ Garbage and trash collection
 421220 5 ☐ General freight trucking
 421230 4 ☐ Hazardous waste trucking
 421210 6 ☐ Household goods moving
 421250 2 ☐ Messenger service, except telephone and radio telephone
 421250 2 ☐ Parcel delivery service (including parcel courier service)
 421290 8 ☐ Other specialized local trucking — *Specify type* ↘

Trucking, except local

- 421340 1 ☐ Agricultural products
 421320 3 ☐ General freight trucking
 421330 2 ☐ Hazardous waste trucking
 421310 4 ☐ Household goods moving
 421350 0 ☐ Parcel delivery service (including parcel courier service)
 421390 6 ☐ Other specialized trucking — *Specify type* ↘

Local trucking with storage

- 421410 2 ☐ Household goods moving
 421490 4 ☐ Other local trucking with storage — *Specify type* ↘

Water transportation service

- 446910 2 ☐ Marina
 446990 4 ☐ Other water transportation service — *Specify type* ↘

CONSTRUCTION (C)**Building construction — general contractor**

- 152100 4 ☐ Single-family housing construction
 999999 6 ☐ Other building construction — *Specify type* ↘

Heavy construction contractor

- 161190 4 ☐ Highway and street construction
 999999 6 ☐ Other heavy construction — *Specify type* ↘

Special trade contractor

- 175100 7 ☐ Carpentry contractor
 173100 9 ☐ Electrical contractor
 172100 0 ☐ Painting contractor
 171100 1 ☐ Plumbing, heating, or air conditioning contractor
 999999 6 ☐ Other special trade contractor — *Specify type* ↘

MANUFACTURING (M)

- 275200 4 ☐ Instant or quick print, except photocopy service
 999999 6 ☐ Other commercial printing — *Specify type* ↘

- 359900 8 ☐ Machine shop, jobbing and repair
 999999 6 ☐ Other manufacturing — *Specify type* ↘

- ☐ **AGRICULTURAL PRODUCTION**
☐ **AGRICULTURAL SERVICE**
☐ **MINERAL EXTRACTION**
☐ **MINERAL SERVICE**
☐ **OTHER BUSINESS OR ACTIVITY** — *Specify type* ↘

Item 9 — CERTIFICATION — This report is substantially accurate and has been prepared in accordance with instructions.

Name of person to contact regarding this report — <i>Print or type</i>		Telephone —→	Area code	Number	Extension
Signature of authorized person		Date			

U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS

FORM

ES-9200

1987 ECONOMIC CENSUSES
AUXILIARY ESTABLISHMENT REPORT

OMB No. 0607-0571: Approval Expires June 30, 1989

NOTICE — Response to this inquiry is required by law (title 13, U.S. Code). By the same law, your report to the Census Bureau is confidential. It may be seen only by sworn Census employees and may be used only for statistical purposes. The law also provides that copies retained in your files are immune from legal process.

Please complete this
form and RETURN TOBUREAU OF THE CENSUS
1201 East Tenth Street
Jeffersonville, IN 47134**DUE DATE: FEBRUARY 15, 1988**

If you cannot file by the due date, a time extension request should be sent to the above address; please include your 11-digit Census File Number (CFN).

Note — Please read the instructions before
answering the questions.

901	902	903	904
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In correspondence pertaining to this report,
please refer to this Census File Number (CFN)Employer Identification (EI)
Number

ES-9200

Please correct errors in name, address, and ZIP Code. ENTER street end number if not shown.

IMPORTANT — Please read**GENERAL INSTRUCTIONS****Who should report?**

- All auxiliary establishments which were operated during any part of 1987.

What is an auxiliary establishment?

- An establishment primarily engaged in performing management, supervision, general administrative functions, and supporting services for other establishments of the same enterprise, rather than for the general public or other business firms.

Examples of auxiliary establishments: Central offices, corporate offices, regional offices, accounting offices; research, development, and testing laboratories; central repair shops; warehouses; computer centers; etc.

What should you report?

- Report only for the activities of this auxiliary establishment. EXCLUDE all operating activities which produce goods or services reported on another 1987 Economic Censuses report form (i.e., manufacturing, selling, etc.).
- If book figures are not readily available, carefully prepared estimates for data items are acceptable for statistical purposes.
- Be sure to complete every item. Enter "0" in items where appropriate.

What is an enterprise?

- An enterprise consists of a parent firm and all its establishments and subsidiaries under common ownership or control.

Item 1 — EMPLOYER IDENTIFICATION NUMBER

Is the Employer Identification (EI) Number shown in the label the SAME as that used for this establishment on its latest 1987 Employer's Quarterly Federal Tax Return, Treasury Form 941?

094 1 ☐ YES2 ☐ NO — Enter current
EI Number

(9 digits)

Item 2 — PHYSICAL LOCATION OF ESTABLISHMENT

Answer items a, b, c, and d

NOTE: P.O. boxes or rural routes are not physical locations.

- a. ☐ Same as shown in mailing label. If different, indicate change. ☒

NUMBER AND STREET

CITY, TOWN, VILLAGE, ETC.

STATE

ZIP CODE

- b. Is this establishment physically located inside the legal boundaries of the city, town, village, etc.?

095 1 ☐ YES2 ☐ NO3 ☐ No legal boundaries4 ☐ Don't know

- c. Type of municipality where physically located

096 1 ☐ City, village, or borough2 ☐ Town or township3 ☐ Other or don't know

- d. Name of county where physically located

Item 3 — OPERATIONAL STATUS

Number of months

002

- e. How many months during 1987 did this firm or organization actively operate this establishment?

- b. Mark (X) the ONE box which best describes this establishment at the end of 1987.

001 1 ☐ In operation2 ☐ Temporarily or seasonally
inactive3 ☐ Ceased operation — Give date →4 ☐ Sold or leased to another
operator — Give date at right
AND enter name, etc., below ☒

NAME OF NEW OWNER OR OPERATOR

NUMBER AND STREET

CITY

STATE

ZIP CODE

Item 4 — EMPLOYMENT BY FUNCTION

List both full-time and part-time employees as defined on Treasury Form 941 at this auxiliary location, by each employee's primary function.

- Exclude** • Employees working in or from other establishments, even though paid from this location
• Proprietors or partners if an unincorporated firm

- a. Employment by function for pay period including March 12, 1987. (Where records do not provide actual employee counts in terms of the functions listed, estimates of the approximate number in each are acceptable. Those performing a variety of functions should be reported in their primary activity during the pay period.)

(1) Administrative and managerial employees (Exclude employees engaged in office and clerical work.)

015

(2) Office and clerical employees — except sales support

018

(3) Research, development, and testing employees

017

(4) Warehousing employees

018

(5) Trucking employees

019

(6) Communication employees (including telephone and telecommunication)

020

(7) Repair service employees

021

(8) Electronic data processing employees (Include programming and systems design.)

022

(9) Sales employees selling directly to customers from this location

023

(10) Sales support employees (Include office and clerical, and other employees directly supporting the sales personnel in line (9).)

024

(11) Other employees — Specify

025

b. TOTAL March 12 employment — Sum of lines (1) through (11)

032

**HOW TO
REPORT
DOLLAR
FIGURES**Value figures may be reported in
dollars or rounded to thousands.Example: If a figure is
\$1,125,628, report either* **PREFERRED**
AcceptableMil-
lions
(000)Thou-
sands
(000)Dol-
lars
(000)

1 125 628

Item 5 — PAYROLL IN 1987, BEFORE
DEDUCTIONSReport total payroll of all employees as defined on
Treasury Form 941

- Include** • Gross earnings paid to employees prior to such deductions as:

- Employee's Social Security contributions
- Withholding taxes
- Group insurance premiums
- Union dues
- Savings bonds

- All wages and salaries including:
 - Commissions and paid bonuses
 - Dismissal pay
 - Vacation and sick pay
 - Cash equivalent of compensation paid in kind
- Salaries of officers if a corporation

- Exclude** • Payments to proprietors or partners if an unincorporated concern
• Employer's cost for fringe benefits

**Item 6 — EMPLOYER'S COST FOR FRINGE
BENEFITS IN 1987
(Supplemental Labor Costs)****LEGALLY REQUIRED** — For example:

- Employer's Social Security tax
- Unemployment tax
- Workmen's compensation insurance
- State disability insurance programs

VOLUNTARY PROGRAMS — For example:

- Union negotiated benefits
- Life insurance premiums
- Pension plans and welfare plans
- Insurance premiums on hospital and medical plans
- Stock purchase plans

Number

Mil-
lions
(000)Thou-
sands
(000)Dol-
lars
(000)

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PENALTY FOR FAILURE TO REPORT

CONTINUE ON PAGE 2 →

Item 7 — PRINCIPAL ACTIVITY OF THIS ESTABLISHMENT

a. Does this establishment perform management, general administrative, or other supporting services PRIMARILY for establishments of your enterprise rather than for other business firms or for the general public? ("Enterprise" refers to the parent firm and all its establishments and subsidiaries under common ownership or control.)

150 ☐ YES — Mark (X) the box which best describes the major activity of this establishment →

2 ☐ NO — If "No" describe the primary activity of this establishment, then SKIP to Item 9.

158

- 151 ☐ Centralized administration
☐ Research, development, and testing
☐ Warehousing
☐ Electronic data processing
☐ Trucking
☐ Communications
☐ Repair services
☐ Selling
☐ Other — Specify
 157

b. Is this establishment the corporate headquarters, executive office or head office for your entire enterprise?

152 ☐ YES — SKIP to Item 8

2 ☐ NO

c. Does this establishment perform these management and administrative functions or support services for ALL establishments of your enterprise?

153 ☐ YES — SKIP to Item 8

2 ☐ NO

d. Does this establishment perform these management and administrative functions or services for a SINGLE operating establishment which is located at the same physical location as shown in the address label?

154 ☐ YES

2 ☐ NO

Item 8 — PRINCIPAL BUSINESS OR ACTIVITY OF THE OPERATING ESTABLISHMENTS SERVICED

a. Mark (X) the ONE box which BEST describes the MAJOR kind of business or industrial activity of the operating establishments of your enterprise that are managed or serviced by the auxiliary referred to in the label.

- 155 ☐ Minerals extraction, production, or exploration
☐ Construction (including general contracting, subcontracting, and land subdividing and developing)
☐ Manufacturing (including publishing and printing)

- ☐ Wholesale trade (including manufacturer's sales branches)
☐ Retail trade
☐ Service industries
☐ Other — Specify
 158

b. List in order of importance, the principal kinds of merchandise sold, products produced, types of services rendered, or construction activities performed by the operating establishments that are managed or serviced by the auxiliary listed in the address label. For each line, also indicate the percent of total sales or receipts that each line represents.

Source of sales or receipts

Percent of total sales or receipts

(1)	%
(2)	%
(3)	%

CENSUS USE ONLY

801

Item 9 — BILLINGS TO OTHER ESTABLISHMENTS OF YOUR ENTERPRISE IN 1987

Report billings to all other establishments of your enterprise during 1987

Include • All merchandise billed by this establishment in 1987
 • All billings, whether or not the merchandise was shipped directly by the supplier or shipped from this establishment

Exclude • Sales to establishments of other enterprises, and franchise sales
 • Purchases made directly by your enterprise's individual establishments

Did this establishment have billings to other establishments of your enterprise during 1987?

710 ☐ YES — Report amount billed →
 2 ☐ NO

Mil. Thou. Dol.

711

Item 10 — SALES TO CUSTOMERS OUTSIDE YOUR ENTERPRISE IN 1987

Report all sales made by this establishment during 1987 to customers outside your enterprise. EXCLUDE sales taxes and other taxes collected.

Include • Merchandise sales, receipts for services, and other business receipts
 • Export transfers to foreign subsidiaries of your enterprise
 • Cost of research and development for the Federal Government or for other enterprises on contract, as reported in Item 11
 • Franchise sales

Exclude • Intra-enterprise transfers to other domestic establishments of your enterprise
 • Sales to outside customers made by other establishments of your enterprise even though billed centrally by this establishment
 • Sales and/or manufacturer's shipments already reported on other Census forms
 • Nonoperating income

a. Did this establishment have sales of products or services to customers outside your enterprise during 1987?

010 ☐ YES — Report sales and receipts →
 2 ☐ NO — SKIP to Item 11

Mil. Thou. Dol.

011

b. Of the total sales reported in line a, report the approximate percent of receipts from —

Whole percents

(1) Products	%
(2) Services	%

Item 11 — COST OF RESEARCH AND DEVELOPMENT IN 1987

Report all costs incurred at this establishment during 1987 to support research and development activities (i.e., wages and salaries, direct materials costs, services and supporting costs, and an appropriate share of depreciation and overhead).

If this establishment performed research and development for the Federal Government or for other enterprises on contract during 1987, include the total amount charged for such work performed. Also, report such receipts in Item 10.

a. Did this establishment perform research and development during 1987?

720

1 ☐ YES — Go to b
 2 ☐ NO — SKIP to Item 12

b. Source of funds for research and development performed

Mil. Thou. Dol.

(1) Federal Government contracts and subcontracts	721		
(2) Nonfederal sources outside your enterprise (other enterprises, local governments, etc.)	722		
(3) Other establishments of your enterprise	723		
(4) TOTAL cost of research and development — Sum of lines (1) through (3)	724		

Item 12 — CAPITAL EXPENDITURES DURING 1987 (EXCLUDING LAND AND MINERAL RIGHTS)

Capital expenditures refer to all costs that are capitalized to the fixed asset accounts and for which depreciation or amortization reserves are maintained. Include all items obtained through a capital lease.

Include • **Line b(1)(a)** — New vehicles purchased for highway use including passenger automobiles, trucks, commercial cars and buses, truck tractors and trailers, and special purpose vehicles
 • **Line b(1)(c)** — Other new machinery and equipment including office machines and fixtures, furniture, warehouse lifts, and similar equipment. Report replacements as well as additions to capacity. Include vehicles whose primary use is off highway.
 • **Line b(2)** — New construction, major alterations, capitalized repairs and improvement of buildings, other fixed structures, and site improvements (such as roads, parking lots, fences, utilities)
 • Expenditures for structures which, on completion, are to be sold and leased back to you
 • The cost of all improvements and new construction which were in progress, but had not been completed at the end of 1987
 • Equipment that is an integral or permanent part of a building or structure
 • **Line b(3)** — Total expenditures for old or existing plants and for second hand equipment acquired from others. Include machinery or equipment transferred from other plants of your enterprise at approximate market value.

Exclude • Cost of land and mineral rights
 • Cost of maintenance and repairs charged as current operating expense
 • Capital expenditures made by outside owners of property rented or leased to this establishment
 • Capital expenditures made by this establishment for other locations of your enterprise

a. Did this establishment make capital expenditures during 1987?

400

1 ☐ YES — Go to b
 2 ☐ NO — SKIP to Item 13

b. Type of capital expenditures

Mil. Thou. Dol.

(1) New machinery and equipment	401		
(a) New automobiles, trucks, trailers, special purpose vehicles, etc., for highway use			
(b) New computers and peripheral data processing equipment	402		
(c) All other expenditures for new machinery and equipment	403		
(d) TOTAL new machinery and equipment — Sum of lines (a) through (c)	404		
(2) New buildings, structures, and additions to plant	405		
(3) Used plant and used equipment acquired from others	406		
(4) TOTAL capital expenditures — Sum of lines (1)(d), (2), and (3)	410		

FORM ES-9200

**1987 ECONOMIC CENSUSES
AUXILIARY ESTABLISHMENT REPORT**
U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUSPlease enter the 11-digit
CENSUS FILE NUMBER
as shown on this report
(See label on page 1)

Item 13 — DEPRECIABLE ASSETS (EXCLUDE LAND) Report the gross cost of depreciable assets of this establishment for which depreciation or amortization accounts are ordinarily maintained. Gross cost represents the acquisition cost to this establishment of such depreciable assets. The cost of assets should include all types of items for which capital expenditures are reported. (See instructions for Item 12.) Include • Cost of improvements and new construction that were in progress but not completed at the end of 1987 • Cost of depreciable assets owned by this establishment, but rented or leased to others under an operating lease agreement • Cost of depreciable assets obtained through capital leases Exclude • Cost of land and depletable assets (timber and mineral rights) • Current assets (inventories, cash, accounts receivable, etc.) and intangible assets (goodwill, patents, copyrights, etc.) • Cost of depreciable assets at other locations for which this establishment maintains records			a. Did this establishment have depreciable assets at the end of the specified year? End of 1986 300 1 <input type="checkbox"/> YES 2 <input checked="" type="checkbox"/> NO If "No" for both years, SKIP to Item 14			End of 1987 350 1 <input type="checkbox"/> YES 2 <input checked="" type="checkbox"/> NO		
b. Gross cost of depreciable assets (1) Buildings and structures (2) Machinery and equipment (3) TOTAL — Sum of lines (1) and (2)			Mil. Thou. Dol. 301 302 305	Mil. Thou. Dol. 351 352 355				
Item 14 — DEPRECIATION CHARGES DURING 1987 Report additions made to accumulated depreciation and amortization accounts during 1987 for assets owned at the beginning of the year or acquired during the year.			Did this establishment have depreciation expense during 1987? 450 1 <input type="checkbox"/> YES — Report depreciation charged to income during 1987 2 <input checked="" type="checkbox"/> NO			Mil. Thou. Dol. 452		
Item 15 — RENTAL PAYMENTS IN 1987 Include • Payments (or equivalent charges) made to other enterprises for the use of buildings (including land and office space) structures, machinery, and equipment. (See Item 12 instructions for breakout of buildings and structures from machinery and equipment.) Exclude • Payments made by this establishment to the parent enterprise or any of its subsidiaries. The value of such enterprise owned assets should be reported as if actually owned by this establishment in Item 13. • Capital leases (should be reported as assets) • Rental payments made by this establishment for plant and equipment at other establishments of your enterprise			Did this establishment make rental payments during 1987? 550 1 <input type="checkbox"/> YES — Report rental payments 2 <input checked="" type="checkbox"/> NO			a. Buildings and structures 551 552 b. Machinery and equipment 555 c. TOTAL — Sum of lines a and b		
Item 16 — COST OF PURCHASED ELECTRICITY IN 1987 Include • The total amount actually paid or payable for electric energy purchased during the year from other enterprises, or received from other establishments of your enterprise. Exclude • The value of electricity generated and used at this establishment • Cost of purchased electricity which is included as part of normal rental payments			Did this establishment purchase electricity during 1987? 730 1 <input type="checkbox"/> YES — Report cost of purchased electricity 2 <input checked="" type="checkbox"/> NO			731 732 731		
Item 17 — COST OF PURCHASED FUEL IN 1987 Include • The total amount actually paid or payable during the year for oil fuels consumed for heat, power, or the generation of electricity • Coal, coke, natural and manufactured gas, fuel oil, liquefied petroleum gas, gasoline, etc. Exclude • Cost of purchased fuel which is included as part of normal rental payments • Gasoline and fuel purchased for highway vehicles			Did this establishment purchase fuels in 1987? 740 1 <input type="checkbox"/> YES — Report cost of purchased fuels 2 <input checked="" type="checkbox"/> NO			741 742 741		
Item 18 — COST OF PURCHASED COMMUNICATION SERVICES IN 1987 Include • Payments for telephone, telegraph, data transmission, telax, teletype, ticker tape, phototransmission, and all other related services Exclude • Cost of purchased communication services which is included as part of rental payments			Did this establishment purchase communication services in 1987? 750 1 <input type="checkbox"/> YES — Report cost of purchased communication services 2 <input checked="" type="checkbox"/> NO			751 752 751		
Item 19 — COST OF PURCHASED REPAIR SERVICES IN 1987 Include • The total amount paid to other establishments for purchased repair services (outside contractors, garages, etc.) • All noncapitalized repairs to buildings, structures, machinery, and equipment (such as repairs to motor vehicles, painting, roof repair, machinery and equipment repair, etc.) NOTE: Report the cost of purchased repair services for equipment that is an integral or permanent part of a building or structure as repairs for buildings and structures, not as equipment. Exclude • Repairs performed on leased buildings or equipment and paid for by normal lease payments • Capitalized improvements for which depreciation or amortization accounts are ordinarily maintained • The cost of all repairs (including all purchased materials) performed by the employees of this enterprise			a. Did this establishment purchase repair services for buildings and structures in 1987? 780 1 <input type="checkbox"/> YES — Report cost of purchased repair services for buildings and structures 2 <input checked="" type="checkbox"/> NO			781 782 781		
			b. Did this establishment purchase repair services for machinery and equipment in 1987? 770 1 <input type="checkbox"/> YES — Report cost of purchased repair services for machinery and equipment 2 <input checked="" type="checkbox"/> NO			771 772 771		
Item 20 — INVENTORIES The Census inventory inquiries are designed to collect information concerning all of the inventories owned by each enterprise and which are located within the United States. Inventories of multi-establishment enterprises should be reported by the establishment that is responsible for the inventories even if these inventories are held at a separate location. In this way, all inventories are accounted for on a nonduplicated basis. The sum of the inventories of all establishments of an enterprise should be approximately equal to the enterprise's total inventories after adjusting for valuation differences. For lines a through e report only those inventories that are attributable to this establishment's operations. Report such inventories as if this establishment owns them. Do not include inventories located at this establishment which are the responsibility of other establishments of your enterprise. Include • Finished products • Work in process • Materials, supplies, fuels, etc., which are for resale or for further fabrication • Inventories in transit for which this auxiliary has responsibility Exclude • Inventories owned by others but held by this auxiliary • Items not held for resale, such as fixtures, equipment, and supplies NOTE: Sum of lines d(1) and d(2) should equal total inventories on line b and sum of lines e(1) and e(2) should equal the amount of line d(2)			a. Did this establishment have inventories at the end of the year specified? End of 1986 200 1 <input type="checkbox"/> YES 2 <input checked="" type="checkbox"/> NO If "No" for both years, SKIP to Item 21, Certification			End of 1987 250 1 <input type="checkbox"/> YES 2 <input checked="" type="checkbox"/> NO		
			b. Report inventories at cost or market value using generally accepted accounting methods. (For inventories at LIFO cost, use the sum of the LIFO amount plus the LIFO reserve when completing lines b through d — Should equal sum of lines d(1) and d(2).) End of 1986 210 1 <input type="checkbox"/> YES — Complete items d and e 2 <input checked="" type="checkbox"/> NO			End of 1987 260 1 <input type="checkbox"/> YES — Complete items d and e 2 <input checked="" type="checkbox"/> NO If "No" for both years, SKIP to Item 21, Certification		
			c. Did this establishment have inventories subject to LIFO costing at the end of the specified year? End of 1986 220 1 <input type="checkbox"/> YES — Complete items d and e 2 <input checked="" type="checkbox"/> NO			End of 1987 270 1 <input type="checkbox"/> YES — Complete items d and e 2 <input checked="" type="checkbox"/> NO		
			d. (1) Total inventories reported on line b which is not subject to LIFO costing. (2) Total inventories reported on line b which is subject to LIFO costing (gross) — Should equal sum of lines e(1) and e(2) e. (1) LIFO reserve associated with the inventories reported on line d(2) (2) LIFO value of inventories reported on line d(2) (net)			Mil. Thou. Dol. 240 230 232 231 290 280 282 281		
REMARKS — Please use this space for any explanations that may be essential in understanding your reported data.								

Item 21 — CERTIFICATION — This report is substantially accurate and has been prepared in accordance with instructions.				Name of person to contact regarding this report — Print or type		Period covered by this report		FROM: Mo. Year		TO: Mo. Year	
Telephone		Area code		Number		Extension		Signature of authorized person		Date	



U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS

FORM

ES-9100

1987 ECONOMIC CENSUSES

ENTERPRISE SUMMARY REPORT

OMB No. 0607-0569: Approval Expires June 30, 1989

NOTICE — Response to this inquiry is required by law (title 13, U.S. Code). By the same law, your report to the Census Bureau is **confidential**. It may be seen only by sworn Census employees and may be used only for statistical purposes. The law also provides that copies retained in your files are **immune from legal process**.

Please complete this form and RETURN TO

BUREAU OF THE CENSUS
1201 East Tenth Street
Jeffersonville, IN 47134

In correspondence pertaining to this report, please refer to this Census File Number (CFN)

ES-9100

DUE DATE: FEBRUARY 15, 1988

If filing by the due date causes an undue burden, a time extension request should be sent to the above address; please include your 11-digit Census File Number (CFN).

NOTE — Please read the instructions before answering the questions.

901

902

903

Please correct errors in name, address, and ZIP Code. ENTER street and number if not shown.

IMPORTANT — This is an enterprise summary report

PURPOSE OF THIS FORM

- The purpose of this form is to obtain consolidated information for domestic activities of your enterprise.

WHAT IS AN ENTERPRISE?

- An enterprise is a business, service, or membership organization consisting of one or more establishments under common ownership or control.
- It includes all establishments of subsidiary companies, where there is more than 50 percent ownership, as well as establishments of firms which the enterprise has the power to direct or cause the direction of management and policies.
- An enterprise may vary in composition ranging from a single legal entity (e.g., corporation, partnership, etc.) to a complex family of legal entities under common ownership or control.

WHAT SHOULD BE REPORTED?

- Report for all establishments of your firm. Include operating locations, administrative offices, and sales offices owned or controlled by this enterprise and its subsidiaries.
- Include your enterprise's activities in all 50 states and the District of Columbia. Do not include activities in foreign countries or U.S. possessions such as Puerto Rico, Guam, etc., except for reporting foreign assets on line 36.
- Include subsidiaries whether or not they are consolidated in your enterprise's books.
- Report consolidated information. Exclude domestic intra-enterprise transfers.
- Report for the 1987 calendar year. If calendar year records are not available, fiscal year reports for the period ending between October 31, 1987 and February 29, 1988 are acceptable. Be sure to complete every item. If book figures are not readily available, enter your best estimates. Enter "0" in items where appropriate.
- Generally Accepted Accounting Principles (GAAP) should be followed when filling out this form.
- For assistance in completing this form, call the Census Bureau's Enterprise Statistics Branch (301) 763-1758.

HOW TO REPORT DOLLAR FIGURES

Value figures may be reported in dollars or rounded to thousands.

Example: If a figure is \$1,179,125.628, report either

• **PREFERRED**
Acceptable

Billions (000)	Millions (000)	Thousands (000)	Dollars (000)
1	179	126	
1	179	125	628

PENALTY FOR FAILURE TO REPORT

CONTINUE ON PAGE 2 →

Item A — SALES AND OPERATING RECEIPTS DURING 1987

INCLUDE

- Operating receipts from taxable operations as well as total revenues from tax-exempt activities
- Assets sold under a capital lease agreement
- Export transfers to your foreign subsidiaries

EXCLUDE

- Sales and other taxes collected and paid directly to government taxing agencies
- Domestic intra-enterprise transfers
- Sales by foreign subsidiaries
- Nonoperating income

1. Consolidated SALES and operating receipts (net of taxes)

Bil.	Mil.	Thou.	Dol.
011			

2. Did this enterprise sell depreciable assets to others through capital leases during 1987? ⁶³⁰ 1 ☐ YES — Report amount 2 ☐ NO — SKIP to Item B

631			
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A capital lease is an agreement where the lessee acquires equity in the assets. Accounting rules generally require that owned assets "sold" or transferred through capital leases be treated as SALES for the year in which they are leased. If your enterprise owned assets that were leased to others under a capital lease agreement in 1987, report these "sales" at the fair market value of the assets when they were leased.

3. Is the amount of leased assets "sold" reported in line 2 also included in line 1? ⁶³² 1 ☐ YES 2 ☐ NO

Item B — EMPLOYMENT AND PAYROLL DURING 1987

Include full and part-time employees and their pre-tax wages and salaries (gross earnings) as defined on Treasury Form 941, Employers Quarterly Federal Tax Return. Include salaried officers and executives of incorporated firms and payments made to them. Exclude proprietors or partners of unincorporated firms and their payments.

4. Number of paid EMPLOYEES for the pay period including March 12, 1987

Report all employees including persons on paid sick leave, paid holidays, and paid vacations.

Number
032

Payroll:

Report gross earnings paid to employees prior to such deductions as employee's social security contributions, withholding taxes, group insurance premiums, union dues, and savings bonds. Gross earnings include all wages, salaries, commissions, dismissal pay, paid bonuses, vacation and sick leave pay, and the cash equivalent of compensation paid in kind. Exclude employer's costs for fringe benefits.

5. FIRST QUARTER payroll

Bil.	Mil.	Thou.	Dol.
031			

6. TOTAL ANNUAL payroll

030			
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Item C — EMPLOYER'S COST FOR FRINGE BENEFITS DURING 1987 (SUPPLEMENTAL LABOR COSTS)

7. Legally required programs

For example: Employer's social security tax, unemployment tax, workmen's compensation insurance, and state disability insurance programs.

8. Voluntary programs

For example: Premiums on life insurance, hospital and medical plans; pension plans, union negotiated benefits; welfare plans; and stock purchase plans.

9. TOTAL FRINGE BENEFITS (SUM of lines 7 and 8)

Bil.	Mil.	Thou.	Dol.
101			
102			
103			

Please enter your 11-digit Census File Number (CFN) from the address label on page 1

Item D — INVENTORIES

Report consolidated information concerning all of the inventories which are owned by your enterprise, and located within the United States. The SUM of the inventories of all domestic establishments of your enterprise should be approximately equal to the TOTAL inventory of your enterprise after adjusting for valuation differences.

INCLUDE

- Finished products; work in process; materials, supplies, fuels, etc., for resale or further fabrication
- Inventories in transit for which your enterprise has taken title

EXCLUDE

- Inventories owned by others but held by your enterprise
- Items not held for resale, such as fixtures, equipment, and supplies

NOTE: Progress billings **should not** be deducted from the reported amounts.

10. Did this enterprise have inventories at the end of 1986? ²⁰⁰ 1 ☐ YES
2 ☐ NO — SKIP to line 16

11. Total inventories at cost or market value for the year ending 1986, using generally accepted accounting principles. (For inventories at LIFO cost, use the SUM of the LIFO value PLUS the LIFO reserve.)

Bil.	Mil.	Thou.	Dol.
210			

12. Inventories reported on line 11 which are NOT subject to LIFO costing for the year ending 1986

240			
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13. Did this enterprise have inventories at LIFO cost at the end of 1986? ²²⁰ 1 ☐ YES
2 ☐ NO — SKIP to line 16

14. Inventories which are subject to LIFO costing in 1986 (gross) (Report the SUM of LIFO value PLUS the LIFO reserve.)

230			
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- 15a. LIFO reserves associated with the inventories on line 14

Bil.	Mil.	Thou.	Dol.
232			

- b. LIFO value of inventories reported on line 14 (net)

231			
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**PLEASE VERIFY — SUM of lines 15a and 15b should equal line 14.
SUM of lines 12 and 14 should equal line 11.**

16. Did this enterprise have inventories at the end of 1987? ²⁵⁰ 1 ☐ YES
2 ☐ NO — SKIP to Item E

17. Total inventories at cost or market value for the year ending 1987, using generally accepted accounting principles. (For inventories at LIFO cost, use the SUM of the LIFO value PLUS the LIFO reserve.)

Bil.	Mil.	Thou.	Dol.
260			

18. Inventories reported on line 17 which are NOT subject to LIFO costing for the year ending 1987

290			
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19. Did this enterprise have inventories at LIFO cost at the end of 1987? ²⁷⁰ 1 ☐ YES
2 ☐ NO — SKIP to Item E

20. Inventories which are subject to LIFO costing in 1987 (gross) (Report the SUM of LIFO value PLUS the LIFO reserve.)

280			
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- 21a. LIFO reserves associated with the inventories on line 20

Bil.	Mil.	Thou.	Dol.
282			

- b. LIFO value of inventories reported on line 20 (net)

281			
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**PLEASE VERIFY — SUM of lines 21a and 21b should equal line 20.
SUM of lines 18 and 20 should equal line 17.**

Item E — DEPRECIABLE ASSETS AND CHANGES IN DEPRECIABLE ASSET ACCOUNTS DURING 1987

Report the gross cost of assets for which depreciation or amortization accounts are ordinarily maintained. Gross cost represents the acquisition cost to your enterprise.

INCLUDE

- Depreciable assets (buildings, structures, machinery, equipment, etc.) and amortizable assets (special tools, film, etc.) as reported in Item H.
- Cost of depreciable assets owned by this enterprise, but rented or leased to others under an operating lease agreement
- Cost of all capitalized drilling and completion costs
- Cost of depreciable assets obtained through capital leases

EXCLUDE

- Cost of land and depletable assets such as timber and mineral rights, including producing or nonproducing leases, bonus payments, royalties and overriding mineral interests, and fee land (Include on line 35.)
- Current assets (inventories, cash, accounts receivable, etc.,) and intangible assets (goodwill, patents, copyrights, etc.) (Include on line 35.)
- Cost of depreciable assets in foreign countries and U.S. possessions (Include on line 36.)
- Cost of depreciable assets leased to others under a capital lease agreement

22. DEPRECIABLE ASSETS, at the END OF 1986

a. Buildings and structures

b. Machinery and equipment

c. Other depreciable assets

Please describe ☒

304

Bil.	Mil.	Thou.	Dol.
301			
302			
303			

23. TOTAL DEPRECIABLE ASSETS, at the end of 1986

(SUM of lines 22a through 22c)

24. TOTAL CAPITAL EXPENDITURES during 1987 including all costs that are capitalized to asset accounts and for which depreciation or amortization reserves are maintained (See Item H for further instructions)

25. OTHER ADDITIONS and acquisitions made (at fair market value) by your enterprise during 1987. If mergers and acquisitions are not treated as a "pooling of interests," enter the fair market value on this line.

26. DEDUCTIONS from depreciable asset accounts for assets sold, retired, scrapped, destroyed, etc., during 1987

27. DEPRECIABLE ASSETS, at the END OF 1987

a. Buildings and structures

b. Machinery and equipment

c. Other depreciable assets

Please describe ☒

354

Bil.	Mil.	Thou.	Dol.
351			
352			
353			

28. TOTAL DEPRECIABLE ASSETS, at the end of 1987

(SUM of lines 27a through 27c)

PLEASE RECONCILE — SUM of lines 23 through 25 MINUS line 26 should equal line 28. If not, explain in the remarks section.

Bil.	Mil.	Thou.	Dol.
305			
333			
334			
335			
355			

Item F — CHANGES IN ACCUMULATED DEPRECIATION DURING 1987**INCLUDE**

- Total depreciation and amortization for the assets included in lines 22 through 28
- Additions made to the accumulated depreciation and amortization accounts during 1987 for assets owned at the beginning of the year or acquired during the year

EXCLUDE

- Reserves for intangible assets
- Depreciation of assets held in foreign countries and U.S. possessions

29. ACCUMULATED DEPRECIATION AND AMORTIZATION at the end of 1986

Bil.	Mil.	Thou.	Dol.
451			

30. DEPRECIATION AND AMORTIZATION EXPENSE charged to income during 1987

452			
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31. OTHER ADDITIONS to the accumulated depreciation and amortization accounts during 1987

453			
-----	--	--	--

32. DEDUCTIONS from the accumulated depreciation and amortization accounts due to sales, retirements, renewals, and replacements during 1987

454	()
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33. ACCUMULATED DEPRECIATION AND AMORTIZATION at the end of 1987 (SUM of lines 29 through 31 MINUS line 32)

455			
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Item G — TOTAL ASSETS, AT THE END OF 1987**NOTE:** Report total assets on a consolidated basis.**34. NET DEPRECIABLE ASSETS (Should equal line 28 MINUS line 33) Include only domestic assets.**

Bil.	Mil.	Thou.	Dol.
501			

35. CURRENT AND OTHER ASSETS

502			
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INCLUDE

- Current and other domestic assets for which depreciation or amortization reserves are NOT maintained, such as inventories, cash, investments, accounts receivable, etc.
- Land, depletable and intangible assets such as timber, mineral rights, goodwill, patents, copyrights, etc. Report all other assets net of all reserves and allowances.

36. FOREIGN ASSETS

503			
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Include all assets in foreign countries and U.S. possessions, regardless of type.
Report net of all reserves, allowances, and accumulated depreciation.

37. TOTAL ASSETS, at the end of 1987 (SUM of lines 34 through 36)

504			
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Item H — CAPITAL EXPENDITURES DURING 1987 (Excluding land and mineral rights)

INCLUDE

- All costs that are capitalized to asset accounts and for which depreciation or amortization reserves are maintained
- All assets obtained through a capital lease

EXCLUDE

- Cost of land and mineral rights, such as producing and nonproducing leases
- Cost of maintenance and repairs charged as current operating expenses
- Capital expenditures by subsidiaries in foreign countries and U.S. possessions

38. NEW MACHINERY AND EQUIPMENT

Bil.	Mil.	Thou.	Dol.
401			

a. New automobiles, trucks, trailers, special purpose vehicles, etc., for highway use

Bil.	Mil.	Thou.	Dol.
402			

b. New computers and peripheral data processing equipment

Bil.	Mil.	Thou.	Dol.
403			

c. All other expenditures for new machinery and equipment Include production machinery, office equipment, and special tools having useful life of more than one year. Report replacements as well as additions to capacity.

Bil.	Mil.	Thou.	Dol.
404			

39. TOTAL new machinery and equipment (SUM of lines 38a through 38c)

40. New buildings, structures, and additions to plant Include new construction, major alterations, capitalized repairs, and improvement of buildings both completed and in progress but not completed at the end of 1987. Include expenditures for structures which, on completion, will be sold and leased back to your enterprise.

Bil.	Mil.	Thou.	Dol.
405			

Bil.	Mil.	Thou.	Dol.
406			

41. USED plant and used equipment acquired from others

42. Capitalized development and exploration of mineral properties Include capitalized expenditures for oil and gas field and other mineral property explorations; for the drilling of oil, gas, dry, and service wells; and for tangible assets.

Bil.	Mil.	Thou.	Dol.
407			

Bil.	Mil.	Thou.	Dol.
408			

43. Other capital expenditures Please describe

Bil.	Mil.	Thou.	Dol.
410			

44. TOTAL CAPITAL EXPENDITURES (SUM of lines 39 through 43)

PLEASE VERIFY — Line 44 should be the same as on line 24. If not, explain in the remarks section.

Item I — CAPITAL LEASES DURING 1987 — ACQUISITION COST

INCLUDE

- Costs of assets obtained through a capital lease agreement from others during 1987, at fair market value (also include in Item H)

EXCLUDE

- Assets obtained through operating leases
- Assets leased to others under a capital lease agreement

Bil.	Mil.	Thou.	Dol.
611			

45. Did this enterprise acquire assets through capital leases during 1987? 1 YES — Report asset cost 2 NO — Skip to Item J

46. Are these capital lease acquisitions included in Item H? 1 YES 2 NO

Item J — ASSETS ACQUIRED AND LEASED DURING 1987

Bil.	Mil.	Thou.	Dol.
621			

47. Did this enterprise acquire depreciable assets during 1987 that were leased to others under an OPERATING lease agreement? 1 YES — Report asset cost 2 NO — SKIP to Item K

48. Are these operating lease expenditures included in Item H? 1 YES 2 NO

Item K — RENTAL PAYMENTS DURING 1987

Include payments made to others for use of buildings and structures (including land and office space), machinery and equipment. Exclude payments for assets obtained through a capital lease (the acquisition value of these assets should be reported in Item H and Item I).

49. Did this enterprise make rental payments to others during 1987? 550 1 ☐ YES
2 ☐ NO — SKIP to Item L

50. Rental payments for use of buildings and structures

Bil.	Mil.	Thou.	Dol.
551			

51. Rental payments for use of machinery and equipment

552			
-----	--	--	--

52. Other rental payments

Please describe ☒

554

553			
-----	--	--	--

53. TOTAL RENTAL PAYMENTS

(SUM of lines 50 through 52)

555			
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Item L — ROYALTY PAYMENTS DURING 1987

54. Did this enterprise make royalty payments during 1987? Include payments to unaffiliated organizations or individuals for the use of intangible property rights including patents, trademarks, copyrights, use of natural resources, etc.

670 1 ☐ YES — Report amount →
2 ☐ NO

Bil.	Mil.	Thou.	Dol.
671			

Item M — ADVERTISING SERVICES DURING 1987

55. Did this enterprise purchase advertising during 1987? Include services from others including payments for printing, media coverage, and other services and materials.

680 1 ☐ YES — Report amount →
2 ☐ NO

Bil.	Mil.	Thou.	Dol.
682			

REMARKS — Please use this space for any explanations that may be essential in understanding your reported data.

Item N — CERTIFICATION — This report is substantially accurate and has been prepared in accordance with instructions.

Name of person to contact regarding this report — <i>Print or type</i> 950				Period covered by this report	FROM: Mo. | Year	TO: Mo. | Year
951 Telephone →	Area code	Number	Extension	Signature of authorized person		Date

FORM ES-9100



U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
FORM

MC-3609

1987 CENSUS OF MANUFACTURES LIGHTING FIXTURES

OMB APPROVAL NO. 0607-0552; EXPIRES 06/89

NOTICE — Response to this inquiry is required by law (title 13, U.S. Code). By the same law, your report to the Census Bureau is confidential. It may be seen only by sworn Census employees and may be used only for statistical purposes. The law also provides that copies retained in your files are immune from legal process.

Please complete this form and RETURN TO

BUREAU OF THE CENSUS
1201 East Tenth Street
Jeffersonville, IN 47134

DUE DATE: FEBRUARY 15, 1988

If you cannot file by the due date, a time extension request should be sent to the above address; please include your 11-digit Census File Number (CFN).

Note — Please read the general instructions on the reverse before answering Items 2 through 11.

In correspondence pertaining to this report, please refer to this Census File Number (CFN)

Employer Identification (EI) Number

MC-3609

Please correct errors in name, address, and ZIP Code. ENTER street and number if not shown.

Item 1A — EMPLOYER IDENTIFICATION NUMBER

Is the Employer Identification (EI) Number shown in the label the SAME as that used for this establishment on its latest 1987 Employer's Quarterly Federal Tax Return, Treasury Form 941?

094

1 ☐ YES

2 ☐ NO — Enter current EI Number

(9 digits)

Item 1B — PHYSICAL LOCATION OF ESTABLISHMENT — Answer parts a through d.

NOTE: P.O. boxes or rural routes are not physical locations.

a. ☐ Same as shown in mailing label. If different, indicate actual physical location.

b. Is this establishment physically located inside the legal boundaries of the city, town, village, etc.?

095

1 ☐ YES

2 ☐ NO

3 ☐ No legal boundaries

4 ☐ Don't know

c. Type of municipality where physically located

096

1 ☐ City, village, or borough

3 ☐ Other or don't know

2 ☐ Town or township

d. Name of county where physically located

Item 1C — ORGANIZATIONAL STATUS — Mark (X) the ONE box which best describes this establishment during 1987.

003 1 ☐ Individual proprietorship 3 ☐ Cooperative association (taxable)

5 ☐ Government — Specify

6 ☐ Corporation (do not mark if any form of cooperative association)

8 ☐ Other — Specify

HOW TO REPORT

COMPLETE EACH ITEM, ENTER "0" WHEN APPROPRIATE

Figures for dollars and hours worked should be rounded to thousands. If you wish, you may report to the nearest unit. Be careful to enter your figures in the correct columns.

Example: If a figure is \$1,125,628, report either

• **PREFERRED method . . .**

Acceptable method . . .

	Mil- lions (000)	Thou- sands (000)	Dol- lars (000)
1	1	125	628

Item 2 — EMPLOYMENT IN 1987

Key Number of employees

a. Number of production workers during pay period including the 12th of the month	(1) March	301
	(2) May	302
	(3) August	303
	(4) November	304

b. **TOTAL** Sum of lines (1) through (4) → 305

c. Average number (Divide line b by 4; omit fractions.) 308

d. All other employees at this establishment (pay period including March 12th) 307

a. **TOTAL EMPLOYMENT** Sum of lines c and d → 308

Item 3A — ANNUAL PAYROLL FOR 1987, BEFORE DEDUCTIONS

Key Mil. Thou. Dol.

a. Production workers' wages (for employees reported in item 2c) 309

b. All other salaries and wages (for employees reported in item 2d) 310

c. **TOTAL PAYROLL** Sum of lines a and b → 311

Item 3C — FIRST QUARTER PAYROLL FOR 1987, BEFORE DEDUCTIONS

Key Mil. Thou. Dol.

TOTAL payroll for the first quarter (January–March) → 316

Item 4 — PLANT HOURS WORKED BY PRODUCTION WORKERS BY QUARTER IN 1987

Key Mil. Thou. Hours

a. January through March 316

b. April through June 317

c. July through September 318

d. October through December 319

e. **TOTAL HOURS WORKED** Sum of lines a through d → 320

Item 5 — COST OF MATERIALS AND SERVICES USED FOR 1987

Key Mark (X) if "0"

a. Cost of materials, parts, components, containers, etc., used 321

b. Cost of products bought and sold as such 222 ☐ 0 322

c. Cost of fuels consumed for heat and power 223 ☐ 0 323

d. Cost of purchased electricity 226 ☐ 0 324

e. Cost of contract work done for you by others 225 ☐ 0 325

f. **TOTAL COST** — Sum of lines a through e → 326

Item 7 — INVENTORIES OF THIS ESTABLISHMENT AT END OF YEAR (Report both years.)

Are inventories of this establishment subject to the LIFO method of valuation?

230 1 ☐ YES — Use the sum of the LIFO amount plus the LIFO reserve for completing lines a through e(2). Note — The sum of lines e(1), f(1), and f(2) should equal line d.

Did you change to LIFO for calendar year 1987? 272 1 ☐ Yes 2 ☐ No

2 ☐ NO — Complete only lines e through e(1). Note — Line e(1) should equal line d.

Report inventories at cost or market using generally accepted accounting methods.

Note — Sum of lines a through c equals d.

a. Finished goods 335

b. Work-in-process 336

c. Materials, supplies, fuels, etc. 337

d. **TOTAL INVENTORIES** → 338

Report the following breakdown of line d:

a. (1) Amount not subject to LIFO costing 369

(2) Amount subject to LIFO costing (gross) 368

Report the following applicable to line e(2):

f. (1) Amount of the LIFO reserve 370

(2) LIFO value of line e(2) (net) 371

Key	END OF 1987			Key	END OF 1986		
	Mil.	Thou.	Dol.		Mil.	Thou.	Dol.
335				331			
336				332			
337				333			
338				334			
369				364			
368				366			
370				369			
371				367			

Item 8A — CAPITAL EXPENDITURES IN 1987

Key Mark (X) if "0"

a. Capital expenditures for NEW buildings and NEW machinery

(1) Buildings and other structures (excluding land) 242 ☐ 0 342

(2) Machinery and equipment 243 ☐ 0 343

(3) **TOTAL NEW CAPITAL EXPENDITURES** Sum of lines (1) and (2) → 244 ☐ 0 344

b. **TOTAL capital expenditures for USED buildings and USED machinery (excluding land)** → 247 ☐ 0 347

Key Mil. Thou. Dol.

Item 8B — GROSS VALUE OF ALL DEPRECIABLE ASSETS (ORIGINAL COST, END OF 1987)

Buildings, machinery, and equipment 356

Key Mil. Thou. Dol.

Item 10 — TOTAL RENTAL PAYMENTS FOR 1987

Key Mark (X) if "0"

Buildings, machinery, and equipment (including land) 262 ☐ 0 362

Key Mil. Thou. Dol.

Buildings, machinery, and equipment (including land) 262 ☐ 0 362

Items 3B, 6, and 9 — Not applicable to this report.

PENALTY FOR FAILURE TO REPORT

CONTINUE ON PAGE 2 →

Item 11 — VALUE OF PRODUCTS EXPORTED IN 1987

Report the value of products shipped for EXPORT. Note: Value of exports in item 11 should not exceed total value of shipments reported in Item 18B.

Key	Mark (X) if "O"	Value of exports			
		Key	Mil.	Thou.	Dol.
398	<input type="checkbox"/> O	399			

Item 16A — OPERATIONAL STATUS

a. Mark (X) the ONE box which best describes this establishment at the end of 1987.

- 001 ☐ 1 In operation
☐ 2 Temporarily or seasonally inactive
☐ 3 Ceased operation — Give date et right
☐ 4 Sold or leased TO another operator — Give date et right AND enter name, etc., below
☐ 5 Acquired or leased FROM another operator — Give date et right AND enter name, etc., below

GIVE DATE
Enter figures only

Month	Year

NAME OF NEW/FORMER OWNER OR OPERATOR

EI Number (9 digits)

NUMBER AND STREET

CITY

STATE

ZIP CODE

b. Is the FIRST DIGIT of your Census File Number (imprinted in the address box) a zero "0"? →

☐ YES — Complete item 16B, a through c

☐ NO — SKIP to item 17A

Item 16B — OWNERSHIP AND CONTROL

Enter the company name and address (Number and street, city, State, ZIP Code) and EI Number. If more space is needed to list companies, use remarks section.

a. Is this company owned or controlled by another company? 097

- ☐ 1 YES
☐ 2 NO

NAME AND ADDRESS OF OWNING OR CONTROLLING COMPANY

EI Number (9 digits)

b. Does this company own or control any other company or companies? 098

- ☐ 1 YES
☐ 2 NO

NAME AND ADDRESS OF OWNED OR CONTROLLED COMPANY

EI Number (9 digits)

c. Did this company operate at more than one location during 1987? →

☐ 1 YES — List additional locations below

☐ 2 NO — SKIP to item 17A

Physical address of business location (Number and street, city, State, ZIP Code)	Employer Identification Number	Kind of business at this location	Sales and receipts			Annual payroll			Number of employees during pay period including March 12	Are these figures included on the front of this report?
			(4)	(5)	(6)	(7)	(8)	(9)		
(1)	(2)	(3)	Mil.	Thou.	Dol.	Mil.	Thou.	Dol.	(6)	(7)
	(9 digits)									<input type="checkbox"/> YES <input type="checkbox"/> NO
	(9 digits)									<input type="checkbox"/> YES <input type="checkbox"/> NO

If more space is needed, attach separate sheet.

Items 12 — 15 — Not applicable to this report.

REMARKS — Please use this space for any explanations that may be essential in understanding your reported data.

SPECIAL INSTRUCTIONS FOR ITEMS 2 — 11

- Item 2 — Number of employees** — Report all employees at this establishment who received pay for part of the pay period including the 12th of the specified months. Include officers at this establishment, if a corporation; if an unincorporated concern, exclude proprietor or partners.
- Items 2a(1) — 2a(4) — Number of production workers** — Report workers (up through the working supervisor level) engaged in fabricating, processing, assembling, inspecting, and other manufacturing.
- Item 2d — All other employees** — Report nonproduction personnel, including those engaged in supervision (above the working supervisor level), installation and servicing of own product, sales, delivery, professional, technical, administrative, etc.
- Item 3a — Annual payroll before deductions** — Follow the definition of salaries and wages used for calculating the Federal withholding tax. Report gross earnings prior to deductions paid in the calendar year to those employees reported in item 2. Include commissions, dismissal pay, bonuses, and vacation pay.
- Item 4 — Plant hours worked by production workers by quarter** — Include all production hours worked, including overtime hours, but excluding paid vacations, etc. These should be reported as actual hours worked, not straight-time equivalent hours.
- Item 5 — Cost of materials, etc.** — Report total delivered cost after discounts and including freight of the materials actually consumed or put in production during the year. Include purchases, interplant transfers, and withdrawal from inventories. If there are no records of consumption, purchases may be reported instead for minor items. This can also be done for major items if purchases do not differ significantly from the amounts actually used. Where consumption of major items differs significantly from purchases, consumption may be estimated by adding beginning inventories to the amount purchased and subtracting ending inventories.
- Item 5a — Cost of materials, parts, components, containers, etc., used** — The delivered cost figures should cover all raw materials, containers, scrap, supplies, etc., which were: (1) put into production, (2) used as operating supplies, or (3) used in repair and maintenance. Item 5a should be consistent with the data in item 17B.
- Item 5b — Cost of products bought and sold** — Report the cost of all products bought and sold in the same condition as when purchased and not made part of another product manufactured by this establishment. (Total sales value of all products sold is to be reported in Item 18B on the line for resales.)
- Item 5c — Cost of fuels consumed** — Report the total cost of all fuels consumed for heat, power, transportation, or the generation of electricity. Do not include the estimated cost of fuels, such as sawdust or blast furnace gas, produced as a byproduct of your manufacturing activities. Include anthracite and bituminous coal, coke, natural and manufactured gas, fuel oil, liquefied petroleum gas, gasoline, and all other fuels, including purchased steam. Be sure to include fuel used to power delivery trucks, fork lifts, or other motor vehicles associated with the establishments.
- Item 5d — Cost of purchased electricity** — Report the total cost of electric energy purchased from other companies or received from other establishments of your company. Exclude the value of electricity generated and used at this establishment.
- Item 5e — Cost of contract work done for you by others on your materials** — If any contract work was done by others on materials furnished by your establishment, report the total payments made during the year for such work, including freight out and in. Exclude the cost of materials worked on, which should be included in item 5a.
- Item 7 — Inventories of this establishment at end of year (Report both years.)** — Report the value of all inventories owned by this establishment regardless of where the inventories are held. If this establishment is part of a multiunit company, the

- company should assign to each establishment those inventories that the establishment is responsible for, as if it owned them. For example, in completing the report of a manufacturing establishment or sales branch, report those inventories that are attributable to its operations, even if the inventories are held elsewhere, a.g., at a warehouse operated by your company or in a public warehouse. These inventories of an operating establishment held elsewhere should not be reported on the report of the warehouse where they are actually stored. Inventories should not be duplicated on establishment reports.
- Item 8A — Capital expenditures during year (Exclude expenditures for land.)** — Include all costs actually incurred during 1987 chargeable to the fixed assets accounts and of the type for which depreciation or amortization accounts are ordinarily maintained. This should include construction and repair work performed by your own forces. For establishments involved in leasing arrangements, see special instructions below.
- Item 8B — Gross value of depreciable assets** — Report the original cost of depreciable assets on the books of this establishment such as buildings, structures, machinery, and equipment for which depreciation or amortization reserves are maintained. Improvements and new construction in progress, but not completed at year-end, should be included in fixed assets at a value equal to the cumulative expenditures to the end of the year. This procedure should be followed even though the asset is not in use and is not yet being depreciated. See special instructions on leasing below.
- Item 10 — Rental payments** — Report rental payments made during the year to other companies for use of such fixed assets as buildings, structures, and equipment (including land). If the parent or subsidiary rents property for use of this establishment and pays the rent, the rents should be reported as if the establishment paid them. See special instructions on leasing below.
- Item 11 — Value of products exported** — Report as exports those shipments going directly for export including shipments to foreign subsidiaries or foreign divisions of your company and their affiliates. Include value of products shipped to exporters or other wholesalers for export. Also include the value of products sold to the United States Government to be shipped to foreign governments. Do not include products shipped for further manufacture, assembly, or fabrication in the United States. Shipments to customers in the Panama Canal Zone, the commonwealth of Puerto Rico, and United States possessions are not considered exports. Before completing this item, note that the value of exports should not exceed the total value of shipments and other receipts reported in Item 18B.
- Special instructions on leasing (Items 8A, 8B, and 10)**

The value of assets should not include the equipment and buildings that were produced by this establishment and marketed by a lease rather than being sold outright. The value of this equipment should have been reported as an f.o.b. value of shipments at the time the product was marketed.

If any of the equipment or buildings used by this establishment in its production are leased from other companies, the equipment should be reported according to the type of lease negotiated with the producer or the lessor as described below.

If the leasing arrangements meet the criteria set down by the Financial Accounting Standards Board (FASB) for a capital lease, please report the original cost or market value of that equipment and building as a value of fixed assets. If any building or equipment has been acquired this year under a capital lease, please report the cost at the market value as a capital expenditure and include this value in the end of year assets. Do not report the periodic payments made to the lessor in the rental section.

If the lease qualifies as an operating lease, do not include the value of the building and equipment as assets or capital expenditures, but report the periodic payments made to the producer or the lessor in the rental section.

CONTINUE ON PAGE 3 →

FORM MC-3609

U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUSPLEASE ENTER THIS ESTABLISHMENT'S
11-DIGIT CENSUS FILE NUMBER**1987 CENSUS OF MANUFACTURES**
LIGHTING FIXTURES — Continued

Name of establishment (Same as address box)

Item 17A — WATER USE DURING 1987**1. What was the total quantity of new water intake for this establishment for the calendar year 1987?** Include water from all sources (public water systems, rivers, lakes, streams, wells, oceans, and other) which was used in the production process and auxiliary operations, such as cooling, boiler feed, and sanitary services.

Mark (X) one box only

1 ☐ Less than 1 million gallons2 ☐ 1 to 9 million gallons3 ☐ 10 to 19 million gallons4 ☐ 20 to 49 million gallons5 ☐ 50 to 99 million gallons6 ☐ 100 million gallons or more**2. Did you recirculate any water during the calendar year 1987?** Recirculation is defined as the return of water from a process, operation, or storage area to the incoming flow to reduce the intake of new water.1 ☐ YES2 ☐ NO**Item 17B — CONSUMPTION OF SELECTED MATERIALS DURING 1987****Instructions — Please read****1. GENERAL** — The materials, parts, and supplies listed below are those commonly consumed in the manufacture, processing, or assembly of the products listed in Item 18B. Please review the entire list and report separately each item consumed. Leave blank if you do not consume the item. If you use materials, parts, and supplies which are not prelisted, describe and report them in the "Cost of all other materials . . ." line at the end of this section. If you consume some but less than \$10,000 of a listed material, include the value with "Cost of all other materials . . ." Census material code 970099 8.

Report materials, parts, and supplies purchased, transferred from other plants of your company, or withdrawn from inventory.

If the information as requested cannot be taken directly from your book records, REASONABLE ESTIMATES ARE ACCEPTABLE.

2. VALUATION OF MATERIALS CONSUMED — The value of the materials, etc., consumed should be based on the delivered cost; i.e., the amount paid or payable after discounts and including freight and other direct charges incurred in acquiring the materials.

Materials received from other plants within your company should be reported at their full economic value (the value assigned by the shipping plant, plus the cost of freight and other handling charges).

If purchases or transfers do not differ significantly from the amounts actually put into production, you may report the cost of purchases or transfers. However, if consumption differs significantly from the amounts purchased or transferred, these amounts should be adjusted for changes in the materials and supplies inventories by adding the beginning inventory to the amounts purchased or transferred and subtracting ending inventory.

3. PRODUCE AND CONSUMED — Forgings, foundries, and screw machine products — Report the quantities produced and used in manufacturing other products made in this establishment in item 19. Note that the materials used to produce these items should be reported in item 17B.**4. CONTRACT WORK** — Include as materials consumed those you purchased for use by others making products for you under contract. Amounts paid to the companies doing the contract work should be reported in item 5b (page 1), and should include freight in and out. On the other hand, materials owned by others but used at this establishment in making products for others under contract or on commission should be excluded.**5. REALES** — Cost for products bought and sold or transferred from other establishments of your company and sold without further manufacture, processing, or assembly should be reported in item 5b (page 1), not in item 17B below. The value of these products shipped by this establishment should be reported in item 18B under Census product code 99989 00 8, "Resale."

Line No.	Materials, parts, and supplies		Census material code	Unit of measure for quantities	Consumption of purchased materials and of materials received from other establishments of your company		
					Quantity	Cost, including delivery cost (freight-in)	
	(A)		(B-1)	(B-2)	(C)	(D)	
						Millions	Thousands Dollars
1	MILL SHAPES AND FORMS (EXCEPT CASTINGS AND FORGINGS)	Carbon steel					
2		Bars and bar shapes	331011 7			\$	
3		Sheet and strip	331012 5				
4		Plates	331013 3				
5		Structural shapes	331015 8	Short tons			
6		Wire and wire products	331017 4				
7		All other	331019 0				
8		Alloy steel (except stainless)	331020 8				
9		Stainless steel	331031 5				
10		Copper and copper-base alloy	335004 8				
11		Aluminum and aluminum-base alloy					
12		Sheet, plate, and foil	335301 8	Thousand pounds			
13		Extruded shapes (including extruded rod, bar, pipe, tube, etc.)	335405 7				
14		All other (wire, rolled rod and bar, powder, welded tubing, etc.)	335008 9				
15		Aluminum and aluminum-base alloy refinery shapes	333401 8	Short tons			
16		Insulated wire and cable (except magnet wire)	335791 0	Thousand pounds			
17		Magnet wire	335770 4				
18	CASTINGS (ROUGH AND SEMIFINISHED)	Iron (gray and malleable)	332011 6	Short tons			
19		Steel	332045 4				
20		Aluminum and aluminum-base alloy	336100 3	Thousand pounds			
21		Other nonferrous	336003 9				
22		Plastics products consumed in the form of sheets, rods, tubes, and other shapes	307903 5				
23		Plastics resins consumed in the form of granules, pellets, powders, liquids, etc., but excluding sheets, rods, tubes, and other shapes	262104 9	Thousand pounds			
24		Paperboard containers, boxes, and corrugated paperboard	265001 8	Short tons			
25		Fabricated plastics products (except gaskets)	307902 7				
26		Bolts, nuts, screws, washers, rivets, and screw machine products	345001 2				
27		Specialty transformers and fluorescent ballasts	361201 7				
28		Current-carrying wiring devices	364300 4				
29		Electric lamp bulbs	364101 6				

CONTINUE ON PAGE 4 →

Item 17B — CONSUMPTION OF SELECTED MATERIALS DURING 1987 — Continued

Line No.	Materials, parts, and supplies (A)	Census material code 571 (B-1)	Unit of measure for quantities (B-2)	Consumption of purchased materials and of materials received from other establishments of your company			
				Quantity 573 (C)	Cost, including delivery cost (freight-in) (D)		
					574 Millions	Thou- sands	Dollars
28	Flat glass (plate, float, and sheet)	321101 8	Thousand sq. ft.		\$		
29	Lamp shades	399951 3					
30	Metal poles	349910 0					
31	Cost of all other materials and components, parts, containers, and supplies Describe the three principal materials, etc., included in this value.	970099 8					
32	TOTAL Sum of lines 1—31 should be same as item 5a				\$		

Item 18A — Not applicable to this report.

Item 18B — PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1987

Instructions — Please read

1. **GENERAL** — The manufactured products and services listed below are those that are generally made in your industry. If you make products that are not prelisted, describe and report them in the "All other products made in this establishment" section at the end of item 18B. **Please do not combine product lines.**

If quantities are requested, please use the unit of measure specified.

If the information as requested cannot be taken directly from your book records, REASONABLE ESTIMATES ARE ACCEPTABLE.

2. **VALUATION OF PRODUCTS** — Report the value of the products shipped and services performed at the net selling value, f.o.b. plant, to the customer; i.e., after discounts and allowances, and exclusive of freight charges and excise taxes.

If you transfer products to other establishments within your company, you should assign the full economic value to the transferred products; i.e., include all direct costs of production and a reasonable proportion of all other costs and profits.

3. **CONTRACT WORK** — Report products made by others for you from your materials on the specific lines as if they were made in this establishment. On the other hand, do not report on the specific product lines products that you made

from materials owned by others. Report only the amount that you received for "commission or contract receipts" under Census product code 93000 00 B.

4. **RESALES** — Do not report on the specific product lines those products bought and sold or transferred from other establishments of your company and sold without further manufacture. Report only a value under Census product code 999B9 00 6, "Resales."

5. **DETAILED DATA REPORTED ELSEWHERE** — Items denoted by an asterisk (*) require totals for groups of products covered in the more frequent Current Industrial Reports (CIR). If you report on the CIR forms, the sum of the detailed CIR products should equal the total reported on this census form. The Current Industrial Reports related to this report are as follows:

- e. MO-36B, Electric Lamps (Bulbs only)
- b. MA-36K, Wiring Devices and Supplies
- c. MA-36L, Electric Lighting Fixtures

NOTE: Only CIR totals are requested; do not duplicate detail reported on the CIR.

Line No.	Products and services *Item corresponds to products reported on Current Industrial Reports				Census product code 581 (B-1)	Corresponds to the sum of value item codes reported in 1987 on —		Products shipped and other receipts Value, f.o.b. plant (E)		
	(A)					CIR form (B-3)	Item codes (B-4)	584 Millions	Thou- sands	Dollars
1	Residential type electric fixtures (except portable; including parts and accessories) (36451)*				36451 00 3	MA-36L	2111—2169	\$		
2	PORTABLE RESIDENTIAL TYPE LIGHTING FIXTURES, AND PARTS FOR PORTABLE RESIDENTIAL TYPE LIGHTING FIXTURES (36457)	Incandescent portable lamps, complete	COMPLETE WITH SHADE	Floor lamps	36457 21 6					
3				Wall lamps (including adjustable types)	36457 21 6					
4				Table lamps (excluding desk)	36457 23 2					
				Other (including boudoir and desk) — Specify kind						
5					36457 29 9					
6				Lamps sold without shades (including floor, table, etc.)	36457 32 3					
7				Portable lamps (desk, etc.), fluorescent	36457 61 2					
8		Parts and accessories for portable residential lighting fixtures	36457 73 7							
9	Commercial and institutional type electric lighting fixtures (including parts and accessories) (36462)*				36462 00 0	MA-36L	2211—229B			
10	Industrial type electric lighting fixtures (including parts and accessories) (36463)*				36463 00 8		2302—2339			
11	Vehicular lighting equipment, electric (including parts and accessories) (36470)*				36470 00 3		2401—2439			
12	Outdoor lighting equipment (including parts and accessories) (36485)*				36485 00 1		2510—2598			
13	OTHER ELECTRIC AND NONELECTRIC LIGHTING EQUIPMENT (INCLUDING HAND PORTABLE EQUIPMENT AND PARTS AND ACCESSORIES) (36489) (Continued on next page)	Incandescent hand portable lighting equipment (except parts)	Rechargeable battery operated	Flashlights and flashlight lanterns (one to five cells)	36489 12 8					
14			OTHER THAN RECHARGEABLE BATTERY OPERATED	Other, such as miners' lights, emergency warning lights, generator flashlights, etc. — Specify kind	36489 16 9					
15					36489 17 7					
				Other incandescent electric lighting equipment (including marine markers or beacons, railway and other vehicular route lighting equipment, etc.; except parts and accessories) — Specify kind						
16				Other fluorescent lighting equipment, complete units (including processing and technical equipment) — Specify kind						
17					36489 75 5					

CONTINUE ON PAGE 5 →

FORM MC-3609

U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUSPLEASE ENTER THIS ESTABLISHMENT'S
11-DIGIT CENSUS FILE NUMBER**1987 CENSUS OF MANUFACTURES**
LIGHTING FIXTURES — Continued

Name of establishment (Same as address box)

Item 18B — PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1987 — Continued

Line No.	Products and services		Census product code 581 (B-1)	Corresponds to the sum of value item codes reported in 1987 on —		Products shipped and other receipts		
				CIR form (B-3)	Item codes (B-4)	Value, f.o.b. plant (E)		
	(A)					584 Millions	Thou-	Dollars
19	OTHER ELECTRIC AND NONELECTRIC LIGHTING EQUIPMENT (INCLUDING HAND PORTABLE EQUIPMENT AND PARTS AND ACCESSORIES) (39499) — Continued	Other electric lighting equipment (including electrical discharge, such as mercury vapor (other than street and highway lighting equipment), sodium vapor, etc.; excluding signs) — <i>Specify kind</i>	36489 21 9			\$		
19		Ultraviolet and infrared health lamp fixtures (excluding lamp bulbs sold separately)	36489 91 2					
20		Parts and accessories for other electric lighting fixtures, n.e.c.	36489 70 6					
21		Nonelectric lighting equipment (including parts)	Lamps and lanterns (including kerosene, gasoline, propane, butane, etc.)	36489 83 9				
22			Other nonelectric lighting fixtures and equipment, complete units (including carbide lamps of all types) — <i>Specify kind</i>	36489 87 0				
23		Parts and accessories for nonelectric lighting equipment (including reflectors and fittings, incandescent mantles, etc.) — <i>Specify kind</i>	36489 85 4					
24		Automotive mirrors	32315 71 5					
25		Fabricated transportation plastics products (except foam and reinforced plastics for motor vehicles)	3079C 11 1					
26		Plastics foam products for transportation (including seating, dash, and other interior/exterior components)	3079F 41 9					
27		Reinforced and fibreglass plastics products for transportation	3079F 41 1					
28		Motor vehicle hardware (including lock units, door and window handles, window regulators, hinges, license plate brackets, instrument panel knobs, etc.)	34296 00 4					
29		Parts for carburetors (excluding gaskets and screw machine products; including carburetor temperature controls)	35921 05 5					
30		Electric lamps (bulbs only) (except Christmas tree lamps)	36410 10 8	MQ-36B	1005—1390			
31		Current-carrying wiring devices (including attachment plug caps, connector bodies, lightning arrestors, and pin-and-sleeve convenience power outlets; excluding lamp holders, convenience and power outlets (except pin-and-sleeve), switches, metal contacts, and wire connectors for electrical circuitry)	36436 00 4	MA-36K	3633—3697			
32		Parts for engine electrical/electronic equipment — <i>Specify kind</i>	36949 00 6					
33		Motor vehicle bumper assemblies, bumpers, and parts	37149 01 0					
34		Motor vehicle parts and accessories, new (excluding gasoline engine and gasoline engine parts, filters for internal combustion engines and motor vehicles, exhaust system parts, drive train components, wheels, and brake parts, and assemblies, bumper assemblies, bumpers, and parts) (Also see lines 25, 26, 27, and 31.) — <i>Specify kind</i>	37149 00 2					
35	ALL OTHER PRODUCTS MADE IN THIS ESTABLISHMENT	Describe and report separately each product with a sales value of \$50,000 or more which cannot be assigned to one of the lines above. For all remaining products, write "Other" and report a single total value.	18					
36			28					
37			34					
38			87					
39			59					
40			87					
41	CONTRACT WORK	Receipts for work done for others on their own materials <i>Describe below products worked on and kind of work.</i>	93000 00 8					
42	MISCELLANEOUS RECEIPTS	Receipts for repair work, sales of scrap and refuse, etc.	99980 00 5					
43	RESALES	Sales of products bought and sold without further manufacture, processing, or assembly in this establishment. The cost of such items should be reported in item 5b.	99989 00 9					
44	TOTAL value of shipments and other receipts <i>Sum of lines 1—43, column (E)</i>		77000 00 9			\$		

CONTINUE ON PAGE 6 →

Item 19 — SELECTED PRODUCTS PRODUCED IN THIS ESTABLISHMENT AND USED IN MANUFACTURING OTHER PRODUCTS MADE IN THIS ESTABLISHMENT**Instructions — Please read**

- Report below the quantity of each listed item produced in this establishment and used in manufacturing other products made in this establishment.
- Purchases or receipts of the items specified below should be reported only in item 17B on page 3.
- Materials used to produce the items specified below should be reported in item 17B on page 3.
- Quantities produced for sale as such and not for incorporation in other products should be reported in item 18B above.
- Report quantities in the unit of measure specified in column (E).

Line No.	Item (A)	Census code	Nonferrous foundry products Mark (X) the appropriate box for the materials used	Was this operation performed in this establishment during 1987?		Unit of measure for quantities (E)	Quantities produced in this establishment and used in manufacturing other products made in this establishment (F)
		591 (B)		592 (C)	593 (D) YES NO			594
1	Foundry (Ferrous)	1001 7		1 <input type="checkbox"/>	2 <input type="checkbox"/>	Short tons	
2	Foundry (Nonferrous, except die casting)	1002 5	<input type="checkbox"/> Aluminum <input type="checkbox"/> Copper <input type="checkbox"/> Zinc	1 <input type="checkbox"/>	2 <input type="checkbox"/>	Thousand pounds	
3	Die casting foundry	1003 3		1 <input type="checkbox"/>	2 <input type="checkbox"/>		
4	Automatic screw machine products	1004 1		1 <input type="checkbox"/>	2 <input type="checkbox"/>		
5	Iron and steel forgings	1006 6		1 <input type="checkbox"/>	2 <input type="checkbox"/>	Short tons	

Items 20 and 21 — Not applicable to this report.

REMARKS — Please use this space for any explanations that may be essential in understanding your reported data.

Item 22 — CERTIFICATION — This report is substantially accurate and has been prepared in accordance with instructions.

Name of person to contact regarding this report — Print or type	Telephone			Period covered by this report	FROM: Mo. Year	TO: Mo. Year
	Area code	Number	Extension			
Address — Number and street					Signature of authorized person	
City	State	ZIP Code	Title		Date	



U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS

FORM

MC-3671

1987 CENSUS OF MANUFACTURES

RESIDENTIAL ELECTRIC LIGHTING FIXTURES

OMB APPROVAL NO. 0607-0552; EXPIRES 06/89

NOTICE — Response to this inquiry is required by law (title 13, U.S. Code). By the same law, your report to the Census Bureau is **confidential**. It may be seen only by sworn Census employees and may be used only for statistical purposes. The law also provides that copies retained in your files are **immune from legal process**.

Please complete this form and RETURN TO

BUREAU OF THE CENSUS
1201 East Tenth Street
Jeffersonville, IN 47134

DUE DATE: FEBRUARY 15, 1988

If filing by the due date causes an undue burden, a time extension request should be sent to the above address; please include your 11-digit Census File Number (CFN).

CENSUS USE

In correspondence pertaining to this report, please refer to this Census File Number (CFN)

Employer Identification (EI) Number

MC-3671

Please correct errors in name, address, and ZIP Code. ENTER street and number if not shown.

Item 1A — EMPLOYER IDENTIFICATION NUMBER

Is the Employer Identification (EI) Number shown in the label the SAME as that used for this establishment on its latest 1987 Employer's Quarterly Federal Tax Return, Treasury Form 941?

094 1 ☐ YES 2 ☐ NO — Enter current EI No.

(9 digits)

Item 1B — PHYSICAL LOCATION OF ESTABLISHMENT

Answer items a, b, c, and d

NOTE: P.O. boxes or rural routes are not physical locations.

a. ☐ Same as shown in mailing label. If different, indicate actual physical location.

NUMBER AND STREET

CITY, TOWN, VILLAGE, ETC.

STATE

ZIP CODE

b. Is this establishment physically located inside the legal boundaries of the city, town, village, etc.?

095 1 ☐ YES 2 ☐ NO 3 ☐ No legal boundaries 4 ☐ Don't know

c. Type of municipality where physically located

096 1 ☐ City, village, 2 ☐ Town or or borough 3 ☐ Other or don't know

d. Name of county where physically located

Item 1C — ORGANIZATIONAL STATUS — Mark (X) the ONE box which best describes this establishment during 1987.

- 003 1 ☐ Individual proprietorship
2 ☐ Partnership
3 ☐ Cooperative association (taxable)
4 ☐ Cooperative association (tax-exempt)
5 ☐ Government — Specify _____
6 ☐ Corporation (do not mark if any form of cooperative association)
9 ☐ Other — Specify _____

Item 1D — PRINCIPAL ACTIVITY — Mark (X) the ONE box that best describes the PRINCIPAL kind of business or industrial activity of this establishment.

- 070 1 ☐ Manufacturing (including such activities as: logging, apparel jobbing, publishing, printing, and machine shops)
2 ☐ Minerals extraction, quarrying, production, or exploration
3 ☐ Construction
4 ☐ Wholesale operations
5 ☐ Retail stores
6 ☐ Other

If you have marked (X) in boxes 2—6 above, describe your principal activity below (for example, steel service center, coal mining, hardware distributor, etc.).

Item 2 — EMPLOYMENT IN 1987

Number of employees

- a. Number of production workers (during pay period including the 12th of March) 306
b. All other employees at this establishment (during pay period including the 12th of March) 307
c. **TOTAL** — Sum of lines a and b 308

HOW TO REPORT DOLLAR FIGURES

Value figures may be reported in dollars or rounded to thousands.

Example: If a figure is \$1,125,628, report either 1126 (Preferred) or 1125 (Acceptable)

Item 3 — ANNUAL PAYROLL FOR 1987

Total annual payroll for all employees before deductions (as reported on Federal withholding tax Form 941)

Mil- lions (000)	Thou- sands (000)	Dol- lars (000)
1	126	
1	125	628

Item 5 — COST OF MATERIALS FOR 1987

Include cost of parts, components, fuels, electricity; cost of products bought and sold as such; and contract work

Mil.	Thou.	Dol.
326		

Item 7 — VALUE OF INVENTORIES

Include finished products, work in process, materials, supplies, fuels, etc.

a. End of 1986

b. End of 1987

Mil.	Thou.	Dol.
334		
338		

Item 8A — TOTAL CAPITAL EXPENDITURES FOR 1987 (EXCLUDING LAND)

a. New buildings, machinery, and equipment

b. Used buildings, machinery, and equipment

Mark (X) if "O"

244

247

Mil.	Thou.	Dol.
344		
347		

Item 8B — GROSS VALUE OF ALL DEPRECIABLE ASSETS (ORIGINAL COST, END OF 1987)

Buildings, machinery, and equipment

Mil.	Thou.	Dol.
356		

Item 10 — TOTAL RENTAL PAYMENTS FOR 1987

Buildings, machinery, and equipment (including land)

Mark (X) if "O"

262

0

Mil.	Thou.	Dol.
362		

Item 11 — VALUE OF PRODUCTS EXPORTED FOR 1987

Report the value of products shipped for EXPORT; include value of products shipped to exporters or other wholesalers for export. Also include the value of products sold to the United States Government to be shipped to foreign governments. Do not include products shipped for further manufacture, assembly, or fabrication in the United States.

Mark (X) if "O"

398

0

Mil.	Thou.	Dol.
399		

Item 16A — OPERATIONAL STATUS — Mark (X) the ONE box which best describes this establishment at the end of 1987.

- 001 1 ☐ In operation
2 ☐ Temporarily or seasonally inactive
3 ☐ Ceased operation — Give date _____
4 ☐ Sold or leased to another operator — Give date at right AND enter name, etc., below

Figures only
Month Year

NAME OF NEW OWNER OR OPERATOR

EI NUMBER (9 digits)

NUMBER AND STREET

CITY

STATE

ZIP CODE

Items 4, 6, 9, 12—15, 16B, and 17 — Not applicable to this report.

PENALTY FOR FAILURE TO REPORT

CONTINUE ON PAGE 2

Item 18 — PRODUCTS AND SERVICES OF THIS ESTABLISHMENT

Line No.	The products and services listed below are those that are generally made in your industry. Please review the entire list before completing the inquiry. If you make products that are not prelisted, describe and report each product separately in the "All other products . . ." lines 25—27. Please do not combine product lines. Reasonable estimates are acceptable. (A)				Census product code	1987 value, f.o.b. plant (E)			
						584	Mil.	Thou.	Dol.
1	Residential type electric fixtures, except portable (including parts and accessories) (36451)				36451 00 3	\$			
2	PORTABLE RESIDENTIAL TYPE LIGHTING FIXTURES AND PARTS FOR ALL PORTABLE RESIDENTIAL TYPE LIGHTING FIXTURES (36457)	Incandescent portable lamps, complete	Complete with shade	Floor lamps	36457 21 6				
3				Wall lamps (including adjustable types)	36457 22 4				
4				Table lamps (excluding desk)	36457 23 2				
5				Other (including boudoir and desk) — Specify kind					
6		Lamps sold without shades (including floor, table, etc.)			36457 29 9				
7		Lamps sold without shades (including floor, table, etc.)			36457 32 3				
8		Portable lamps (desk, etc.), fluorescent			36457 61 2				
9		Parts and accessories for portable residential lighting fixtures			36457 73 7				
9	Commercial and institutional type electric lighting fixtures (including parts and accessories) (36462)				36462 00 0				
10	Industrial type electric lighting fixtures (including parts and accessories) (36463)				36463 00 8				
11	Vehicular lighting equipment, electric (including parts and accessories) (36470)				36470 00 3				
12	Outdoor lighting equipment (including parts and accessories) (36485)				36485 00 1				
13	OTHER ELECTRIC AND NONELECTRIC LIGHTING EQUIPMENT (INCLUDING HAND PORTABLE EQUIPMENT AND ACCESSORIES) (36489)	Incandescent hand portable lighting equipment, except parts	Rechargeable battery operated	Flashlights and flashlight lanterns (one to five cells)	36489 12 8				
14				Other, such as miners' lights, emergency warning lights, generator flashlights, etc. — Specify kind	36489 16 9				
15		Other incandescent electric lighting equipment (including marine markers or beacons, railway and other vehicular route lighting equipment, etc., except parts and accessories) — Specify kind			36489 17 7				
16		Other fluorescent lighting equipment, complete units (including processing and technical equipment) — Specify kind			36489 31 8				
17		Other electric lighting equipment (including electrical discharge such as mercury vapor [other than street and highway lighting equipment], sodium vapor, etc., excluding signs) — Specify kind			36489 75 5				
18					36489 21 9				
19		Ultraviolet and infrared health lamp fixtures (excluding lamp bulbs sold separately)			36489 91 2				
20		Parts and accessories for other electric lighting fixtures, n.e.c.			36489 70 6				
21		Nonelectric lighting equipment (including parts)	Lamps and lanterns (including kerosene, gasoline, propane, butane, etc.)		36489 83 9				
22			Other nonelectric lighting fixtures and equipment, complete units (including carbide lamps of all types) — Specify kind		36489 87 0				
23			Parts and accessories for nonelectric lighting equipment (including reflectors and fittings, incandescent mantles, etc.) — Specify kind		36489 85 4				
24		Electric lamps (bulbs only) except christmas tree lamps				36410 10 8			
25		ALL OTHER PRODUCTS MADE IN THIS ESTABLISHMENT	Describe and report separately each product with a sales value of \$50,000 or more which cannot be assigned to one of the lines above. For all remaining products, write "Other" and report a single total value.			18			
26						26			
27				34					
28	CONTRACT WORK (Receipts for work done for others on their own materials)				93000 00 8				
29	MISCELLANEOUS RECEIPTS , including repair work and sale of scrap				99980 00 5				
30	RESALES (Items bought and sold without further processing)				99989 00 6				
31	TOTAL value of shipments and other receipts — Sum of lines 1 through 30 →				77000 00 8	\$			

Items 19—21 — Not applicable to this report.

REMARKS — Please use this space for any explanations that may be essential in understanding your reported data.

Item 22 — CERTIFICATION — This report is substantially accurate and has been prepared in accordance with instructions.

Name of person to contact regarding this report — Print or type				Period covered by this report →	FROM: Mo. | Year	TO: Mo. | Year
Telephone →	Area code	Number	Extension	Signature of authorized person	Date	



DUE DATE: FEBRUARY 15, 1988

U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUSFORM
MA-1000(MU)**1987 ANNUAL SURVEY OF MANUFACTURES**

NOTE — The Annual Survey of Manufactures Form MA-1000(MU) is the first sheet of the 1987 Census of Manufactures form.

OMB APPROVAL NO. 0607-0552; EXPIRES 06/89

NOTICE — Response to this inquiry is required by law (title 13, U.S. Code). By the same law, your report to the Census Bureau is confidential. It may be seen only by sworn Census employees and may be used only for statistical purposes. The law also provides that copies retained in your files are immune from legal process.

Please complete
this form and
RETURN TO

BUREAU OF THE CENSUS
1201 East Tenth Street
Jeffersonville, IN 47134

Note — PLEASE READ ALL ACCOMPANYING INSTRUCTIONS

Item 1A Employer Identification Number(s)

Is the Employer Identification (EI) Number printed in the upper right of the address box the SAME as that used for this establishment on its latest 1987 Employer's Quarterly Federal Tax Return, Treasury Form 941?

034 1 ☐ YES
2 ☐ NO — Enter current
EI Number (9 digits)

In correspondence pertaining to this report
please refer to this Census File Number (CFN)

Employer Identification (EI)
Number

Item 1B Physical location

Complete a, b, and c.
a. Is this establishment located in the State,
county, and place shown at the right? (If blank
or incomplete, please complete (1) through (4).)

850 1 ☐ YES — SKIP to part b
2 ☐ NO — Correct or complete
lines (1) through (4)

(1) Number and street

(2) City, village, or other place

State

ZIP Code

(3) County

(4) If you corrected
lines 1, 2, 3,
give year moved
to new location 19

b. Is this establishment physically located inside the legal
boundaries of the city, town, village, etc., indicated in part
e(2)?

036 1 ☐ YES 2 ☐ NO 3 ☐ No legal
boundaries 4 ☐ Don't
know

c. Type of municipality indicated in part a(2)?

056 1 ☐ City, village
or borough 2 ☐ Town or
township 3 ☐ Other or
don't know

Item 1C Organizational status

Mark (X) the ONE box which best describes
this establishment during 1987.

003 1 ☐ Individual proprietorship
2 ☐ Partnership
3 ☐ Cooperative association (taxable)

4 ☐ Cooperative association (tax-exempt)

5 ☐ Government — Specify

6 ☐ Corporation (do not mark if any form of cooperative association)

9 ☐ Other — Specify

HOW TO REPORT

Figures for dollars, plant hours, kWh should be rounded to thousands. However, you may enter
figures to nearest unit. Carefully enter your figures in the correct columns, e.g., if payroll is
\$1,125,628, report either

Mill-
ions
(000)
\$ 1 126 OR \$ 1 125 628
Thou-
sands
(000)
Dol-
lars
(000)
Mil-
lions
(000)
Thou-
sands
(000)
Dol-
lars
(000)

**COMPLETE EACH ITEM, ENTER
"0" WHEN APPROPRIATE****Item 2 Number of employees
at this establishment**

Number of production
workers during pay
period including the
12th of month

a. March 301
b. May 302
c. August 303
d. November 304

e. Sum of lines e — d

305

f. Average number (Divide line e by 4.)

306

g. All other employees (pay period
of March 12)

307

h. TOTAL f and g (Item 2) —

308

**Item 3A Annual payroll for
employees in item 2,
before deductions**

(Exclude from item 3B.)

a. Production workers' wages

309

b. All other salaries and wages

310

c. TOTAL (item 3A) —

311

**Item 3B Employer's cost for
fringe benefits
(supplemental labor
costs)**

(Exclude from items 3A and 3C.)

a. Legally required including Social Security

312

b. Payments for voluntary programs

313

c. TOTAL (item 3B) —

314

**Item 3C First quarter payroll,
before deductions**

Total payroll for the first quarter
(Jan. — Mar.)

315

**Item 4 Plant hours worked by
production workers**

a. January through March

316

b. April through June

317

c. July through September

318

d. October through December

319

e. TOTAL (item 4) —

320

**Item 5 Cost of materials
and services used**

a. Cost of materials, parts,
components, containers, etc., used

321

b. Cost of products bought and
sold as such

222 ☐ 0 322

c. Cost of fuels consumed for heat
or power

223 ☐ 0 323

d. Cost of purchased electricity
(See item 6.)

224 ☐ 0 324

e. Cost of contract work done for
you by others

226 ☐ 0 325

f. TOTAL (Item 5) —

328

Item 6 Quantity of electricity

a. Purchased electricity (quantity comparable
to cost as reported in item 5d)

327

b. Generated electricity (gross less
generating station use)

328

c. Electricity sold or transferred to other
establishments

329

d. TOTAL (item 6) —

329

Item 7 Inventories of this establishment at end of year (Report both years.)

Are inventories of this establishment subject to the LIFO method of valuation?

230 1 ☐ YES — Use the sum of the LIFO amount plus the LIFO reserve for completing lines e
through e(2). Note — The sum of lines e(1), f(1), and f(2) should equal line d.

2 ☐ NO — Complete only lines e through e(1) and item 12 on back. Note — Line e(1) should
equal line d.

Report inventories at cost or market using
generally accepted accounting methods.

Note — Sum of lines e through e equals d.

a. Finished goods

335

b. Work-in-process

336

c. Materials, supplies, fuels, etc.

337

d. TOTAL INVENTORIES —

338

Report the following breakdown of line d:

e. (1) Amount not subject to LIFO costing

368

(2) Amount subject to LIFO costing (gross)

369

Report the following applicable to line e(2):

f. (1) Amount of the LIFO reserve

370

(2) LIFO value of line e(2) (net)

371

**Item 8 Depreciable assets, capital expenditures,
and retirements**

Refer to the instruction manual for detailed instructions,
including how to report leasing arrangements.

(e)

a. Gross value of depreciable assets (usually original cost) at
beginning of year

244 ☐ 0 341

b. Capital expenditures for new buildings and machinery

247 ☐ 0 344

c. Capital expenditures for used buildings and machinery

247 ☐ 0 347

d. Retirements and disposition of depreciable assets (i.e., gross
value of assets sold, retired, scrapped, destroyed, etc.)

253 ☐ 0 353

e. Gross value of depreciable assets at end of year
(should equal lines 8a + 8b + 8c — 8d)

358

Item 9 Depreciation charges for the year

259 ☐ 0 359

Item 10 Rental payments (including land)

262 ☐ 0 362

Item 11A Total shipments and other receipts

For 1987 report the total value of products shipped and other receipts as entered in item 188. This value should be
completely comparable to the total reported for 1986. If the two figures are not comparable, please explain the
reasons why in the remarks section. (Reporting by product class is not required for 1987.)

330

CENSUS USE

PENALTY FOR FAILURE TO REPORT

1987

Buildings and other
structures (Exclude
land, except item 10.)
(c)

Machinery and
equipment
(d)

1986 Total
(e)

Mill. Thou. Dol. Mill. Thou. Dol. Mill. Thou. Dol. Mill. Thou. Dol.

339 340 343 346

351 352 355 358

357 360 361

363 364 365 366

367 368 369 370

371 372 373 374

375 376 377 378

379 380 381 382

383 384 385 386

387 388 389 390

391 392 393 394

395 396 397 398

399 400 401 402

403 404 405 406

407 408 409 410

411 412 413 414

CONTINUE ON PAGE 2

Item 11B Value of products exported (This is a breakout of the total value of shipments reported in item 11A.)		Key	Mark (X) if "0"	1987			
Report the value of products shipped for EXPORT. Include value of products shipped to exporters or other wholesalers for export. Also include the value of products sold to the United States Government to be shipped to foreign governments. Do not include products shipped for further manufacture, assembly, or fabrication in the United States.		398	<input type="checkbox"/> 0	399	Mil.	Thou.	Dol.

Item 11C Shipments to other domestic plants of your company (This is a breakout of the total value of shipments reported in item 11A.)		Key	Mark (X) if "0"	1987			
Report the value of products shipped to other domestic plants of your company for further assembly, fabrication, or manufacture.		375	<input type="checkbox"/> 0	376	Mil.	Thou.	Dol.

Item 12 Method of valuation for inventories not subject to LIFO costing		Method of valuation (a)			Key	Amount at end of 1987 (b)		
Using the inventory total reported for this establishment in item 7e(1) for 1987, please indicate the breakdown of that total according to the inventory valuation methods shown. • Cost method — Report amounts on lines 1a—e. • Market basis always used — Report amount on line 2b. • Lower of cost or market — Report amounts valued at cost on lines 1a—e according to the applicable methods and the amount at market on line 2a. For the value reported on line 2a, indicate in the remarks section the cost method that was higher than market. For example: "FIFO."		1. Cost			381	Mil.	Thou.	Dol.
					383			
					384			
					385			
					386			
		2. Market			387			
					388			
		TOTAL — Equals the total reported in item 7e(1) for 1987 —>			389			

Item 13 Cost of purchased services (See instruction manual.)		Key	Mark (X) if "0"	1987			
a. Repair of buildings and other structures		290	<input type="checkbox"/> 0	390	Mil.	Thou.	Dol.
b. Repair of machinery		291	<input type="checkbox"/> 0	391			
c. Cost of purchased communication services (telephone, telegraph, etc.)		392					

Item 14 Breakdown of machinery and equipment expenditures by type reported in item 8b, column(d) (See instruction manual.)		Key	1987		
a. Automobiles, trucks, etc., for highway use		393	Mil.	Thou.	Dol.
b. Computers and peripheral data processing equipment		394			
c. All other expenditures for new machinery and equipment		395			
TOTAL — Should be the same as item 8b, column (d) —>		396			

Item 15 Foreign content of cost of materials, components, parts, etc., used	
a. Does this establishment use materials purchased or transferred from foreign sources? This includes foreign-made materials acquired from a central warehouse or other domestic establishment of your company. Foreign sources include any operation outside of the 50 States, Puerto Rico, and the U.S. territories, whether that operation is owned by your company or someone else.	190 <input type="checkbox"/> Yes — Go to item 15b below <input type="checkbox"/> No <input type="checkbox"/> Don't know
b. If yes, What percentage (approximate) of the total materials used as reported in item 5a is accounted for by foreign sources? Materials used should not include items partially fabricated abroad which reenter the country usually under Items 806 and 807, Schedule 8 of the Tariff Schedule of the United States. Do not use decimal points or fractions for reporting percentage.	191 _____ %
Note — Reasonable estimates are acceptable.	

Item 16A Operational status — Mark (X) the ONE box which best describes this establishment at the end of 1987.					
001 <input type="checkbox"/> In operation <input type="checkbox"/> Temporarily or seasonally inactive <input type="checkbox"/> Ceased operation <input type="checkbox"/> Sold or leased TO another operator — Give date at right AND enter name, etc., below <input type="checkbox"/> Acquired or leased FROM another operator — Give date at right AND enter name, etc., below	} GIVE DATE — Enter figures only <table border="1" style="width:100%; border-collapse: collapse;"><tr><td style="width:50%; text-align: center;">Month</td><td style="width:50%; text-align: center;">Year</td></tr><tr><td style="height: 20px;"></td><td style="height: 20px;"></td></tr></table>	Month	Year		
Month	Year				

NAME OF NEW/FORMER OWNER OR OPERATOR		EI Number (9 digits)	
NUMBER AND STREET	CITY	STATE	ZIP CODE

Item 16B Not applicable to this report
REMARKS — Please use this space for any explanations that may be essential in understanding your reported data.



U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS

FORM
CB-5063

1987 CENSUS OF DISTRIBUTIVE TRADES ELECTRICAL GOODS

OMB APPROVAL NO. 0607-0529; EXPIRES 06/88

NOTICE — Response to this inquiry is required by law (title 13, U.S. Code). By the same law, your report to the Census Bureau is confidential. It may be seen only by sworn Census employees and may be used only for statistical purposes. The law also provides that copies retained in your files are immune from legal process.

Please complete this form and RETURN TO

BUREAU OF THE CENSUS
1201 East Tenth Street
Jeffersonville, IN 47134

DUE DATE: FEBRUARY 15, 1988

If filing by the due date causes an undue burden, a time extension request should be sent to the above address; please include your 11-digit Census File Number (CFN).

NOTE — Please read the accompanying instructions before answering the questions.

In correspondence pertaining to this report, please refer to this Census File Number (CFN)

Employer Identification (EI) Number

CB-5063

Please correct errors in name, address, and ZIP Code. ENTER street and number if not shown.

Item 1 — EMPLOYER IDENTIFICATION NUMBER

Is the Employer Identification (EI) Number shown in the label the SAME as that used for this establishment on its latest 1987 Employer's Quarterly Federal Tax Return, Treasury Form 941?

094 1 ☐ YES (9 digits)
2 ☐ NO — Enter current EI No.

Item 2 — PHYSICAL LOCATION OF ESTABLISHMENT

Answer items a, b, c, and d

NOTE: P.O. boxes or rural routes are not physical locations.

a. ☐ Same as shown in mailing label. If different, indicate change.

NUMBER AND STREET

CITY, TOWN, VILLAGE, ETC.

STATE

ZIP CODE

b. Is this establishment physically located inside the legal boundaries of the city, town, village, etc.?

095 1 ☐ YES 3 ☐ No legal boundaries
2 ☐ NO 4 ☐ Don't know

c. Type of municipality where physically located

096 1 ☐ City, village, or borough 3 ☐ Other or don't know
2 ☐ Town or township

d. Name of county where physically located

Item 3 — OPERATIONAL STATUS

Number of months

a. How many months during 1987 did this firm or organization actively operate this establishment?

002

b. Mark (X) the ONE box which best describes this establishment at the end of 1987.

Figures only

001 1 ☐ In operation
2 ☐ Temporarily or seasonally inactive
3 ☐ Ceased operation — Give date
4 ☐ Sold or leased to another operator — Give date at right AND enter name, etc., below

Month Day Year

NAME OF NEW OWNER OR OPERATOR

NUMBER AND STREET

CITY

STATE

ZIP CODE

Item 4 — ORGANIZATIONAL STATUS — Mark (X) the ONE box which best describes this establishment during 1987.

003 1 ☐ Individual proprietorship 3 ☐ Corporation (Do not mark if any form of cooperative association.)
2 ☐ Partnership 4 ☐ Cooperative association (taxable)
3 ☐ Cooperative association (tax-exempt) 5 ☐ Other — Specify
4 ☐ Governmental — Specify

Item 5 — INVENTORIES

a. Did you have inventories at the end of 1986 or 1987?

110 1 ☐ YES — Complete the remainder of the item 2 ☐ NO — SKIP to item 6

b. Are inventories of this establishment subject to the last-in, first-out (LIFO) method of valuation?

120 1 ☐ YES — Use the sum of the LIFO amount plus the LIFO reserve for items c and d(2) 2 ☐ NO — Complete only line c

End of 1987 End of 1986
Mil. Thou. Dol. Mil. Thou. Dol.

c. Total inventories

046 047

d. LIFO users report the following for line (c):

111 121

(1) Amount not subject to LIFO costing

112 122

(2) Amount subject to LIFO costing (gross)

113 123

e. Report the following applicable to line d(2):

114 124

(1) Amount of the LIFO reserve

(2) LIFO value of the line d(2) (net)

NOTE — The sum of lines d(1), e(1), and e(2) should equal line c.

PENALTY FOR FAILURE TO REPORT

HOW TO REPORT DOLLAR FIGURES

Value figures may be reported in dollars or rounded to thousands.
Example: If a figure is \$1,125,628, report either

PREFERRED
Acceptable

Mil- lions (000)	Thou- sands (000)	Dol- lars (000)
1	126	
1	125	628

Item 6 — DOLLAR VOLUME OF BUSINESS IN 1987

a. Sales of merchandise and other operating receipts (including the gross selling value of business conducted for the account of others)

Mil. Thou. Dol.

010

b. Did this establishment sell merchandise for the account of others on a commission or brokerage basis?

1 ☐ YES — Go to c
2 ☐ NO — SKIP to e

c. Gross selling value of business conducted on a commission or brokerage basis for the account of others (include in item 6a)

Mil. Thou. Dol.

101

d. Dollar volume of commissions or brokerage received on transactions reported in item 6c

102

e. Did construction receipts represent 50% or more of the total sales (as reported in item 6a) of this establishment?

1 ☐ YES
2 ☐ NO

NOTE — If this is the only establishment of this firm skip to item 7.

f. What percentage of the products sold by this establishment did your company (including firms under common ownership or control) manufacture or mine in the United States?

Percent

103 %

g. Dollar volume of transfers (billings) to other establishments within your company (DO NOT include in item 6a)

Mil. Thou. Dol.

105

Item 7 — PAYROLL AND EMPLOYMENT

a. Payroll in 1987, before deductions

Mil. Thou. Dol.

030

(1) Total ANNUAL payroll

031

(2) FIRST QUARTER payroll (Jan.—Mar.)

b. Employment in 1987

Number

Number of paid employees for the pay period including March 12, 1987 (include both full- and part-time employees)

032

Item 8 — EMPLOYMENT BY PRINCIPAL ACTIVITY
Report the approximate number of employees at this establishment according to their principal activity during the pay period including March 12, 1987.

Number

130

a. Selling

131

b. Sales support (including office and clerical, warehousing, drivers, maintenance employees)

132

c. Central administrative and auxiliary

133

d. Manufacturing

134

e. Other — Specify

135

f. TOTAL — Sum of lines a through e should equal item 7b

136

Item 9 — OPERATING EXPENSES

TOTAL 1987 operating expenses, including payroll but excluding cost of goods sold and interest expenses.

Mil. Thou. Dol.

040

Item 10 — SALES BY CUSTOMER CLASSES

Report the approximate percentage of your 1987 sales (item 6a) to each of the customer classes listed.

Report in whole percents

140

a. To farmers (for farm use)

141

b. To builders and contractors

142

c. Export sales

143

d. To retailers and repair shops

144

e. To wholesale establishments

145

f. To household consumers and individual users

146

g. To industrial users (manufacturing and mining)

147

h. To institutional, commercial, and professional users

148

i. To governmental bodies (federal, state, and local)

149

j. TOTAL — Sum of lines a through i should add to 100%

100%

CONTINUE ON PAGE 2

Item 11 — TYPE OF OPERATION

Mark (X) the **ONE** box which best describes the basis on which the **MAJOR** portion of your business was conducted in 1987.

- a. Merchant (buying and selling on own account) 060 ☐ 12
☐ 13
☐ 11
☐ 20
- b. Manufacturers' sales branches and offices ☐ 41
☐ 42
☐ 43
☐ 44
☐ 45
☐ 48
- c. Agent, broker, commission merchant
☐ 41
☐ 42
☐ 43
☐ 44
☐ 45
☐ 48

Item 12 — KIND OF BUSINESS

Mark (X) the **ONE** box which best describes the **PRINCIPAL** kind of business of this establishment in 1987.

- a. Electrical goods 070 ☐ 506310
☐ 506320
☐ 506400
☐ 506590
☐ 506510
☐ 977777
- b. Construction contracting — Specify kind ☐ 977777
- c. Other kind of business — Specify ☐ 777777

Item 13 — COMMODITY LINES

Report sales either in dollar figures (see example on page 1) or as a percent (in whole percents) of total sales (see example below). Report the fair sales value of merchandise marketed under capital, finance, or full payout leases and report the rental receipts derived in 1987 from merchandise under operating leases.

HOW TO REPORT PERCENTS

If figure is 38.76% of total sales:

• Report whole percents

Not acceptable

Mil. Thou. Dol. Per cent
 → 39
 → 38.76

Commodity lines	Census use	Estimated sales during 1987	Mil.	Thou.	Dol.	Per cent
1. Electrical apparatus and equipment (Report industrial controls on line 16. Report communication equipment on line 3.)	170	171				172
a. Power and distribution transformers	1411					
b. Switchgear and switchboard apparatus	1412					
c. Motors and generators (Include motor-generator sets.)	1413					
d. Electric lamps and bulbs	1415					
e. Interior wiring (Report conduit on line 1g.)	1416					
f. Lighting fixtures (residential and commercial)	1417					
g. Other electrical apparatus and equipment (Include conduit, lightning rods, etc.)	1419					
h. Total — Sum of lines 1a through 1g	1400					
2. Electrical appliances, household						
a. Radio and TV sets	1511					
b. Electrical household ranges and ovens	1512					
c. Refrigerators and freezers, household	1513					
d. Household laundry equipment	1514					
e. Vacuum cleaners and sewing machines, household	1515					
f. Other electrical household appliances (Include fans, dishwashers, etc.)	1517					
g. Total — Sum of lines 2a through 2f	1500					
3. Communication equipment and supplies						
a. Electronic communication equipment	1651					
b. Electrical communication equipment	1652					
c. Total — Sum of lines 3a and 3b	1650					
4. Electronic parts and equipment (Report communication equipment on line 3.)						
a. Integrated circuits	1612					
b. Capacitors	1613					
c. Resistors	1614					
d. Discrete semiconductors, etc.	1615					
e. Electronic connectors	1616					
f. Other passive electronic parts	1617					
g. Electronic parts and equipment, n.e.c.	1618					
h. Total — Sum of lines 4a through 4g	1600					
5. Office equipment and supplies (Include microfilming, blueprinting, and photocopying equipment. Report computer equipment on line 6.)	0900					
6. New computer equipment	0920					
7. Computer software — off the shelf (Include custom written on line 31.)	0950					
8. Store machines and equipment	0970					
9. Hardware (Include power hand tools.)	1700					
10. Plumbing and heating equipment and supplies (hydronics)	1800					
11. Warm air heating and air conditioning equipment and supplies	1900					
12. Refrigeration equipment and supplies	2000					
13. New and rebuilt automotive parts and supplies (Report parts installed in repair work on line 34b.)	0200					
14. Marine machinery, equipment, and supplies	2620					
15. Railroad and trolley equipment and supplies	2830					

Item 13 — COMMODITY LINES — Continued

Commodity lines	Census use	Estimated sales during 1987	Mil.	Thou.	Dol.	Per cent
16. General-purpose industrial machinery, equipment, and parts (Include controlling, recording, and indicating instruments.)	2320					
17. Phonograph records and prerecorded tapes, luggage, fire extinguishers, and works of art	3130					
18. Sporting and recreational goods and supplies	2700					
19. Toys and hobby goods and supplies	2800					
20. Photographic equipment and supplies	0800					
21. Kitchen utensils, mirrors, lamps, and picture frames	0540					
22. Floor coverings	0530					
23. Iron and steel wire and wire products (nails, etc.)	1140					
24. Plywood and millwork	0620					
25. Mechanical power transmission supplies	2400					
26. Welding supplies	2430					
27. Industrial containers and supplies	2440					
28. Inks, abrasives, rope, twine, and mechanical rubber goods	2450					
29. Industrial valves and fittings	2420					
30. Chemicals and allied products (Exclude agricultural, plastics, gases, and petroleum.)	5330					
31. Custom computer software (designed to customer specifications)	9990					
32. Miscellaneous commodities — Specify						
a.	9811					
b.	9812					
c.	9813					
33. Rental receipts	9940					
34. Service receipts and labor charges (Include installed parts.)						
a. Labor charges for repair work	9711					
b. Parts installed in repair work	9712					
c. Other service receipts and other labor charges	9713					
d. Total — Sum of lines 34a through 34c	9700					
35. Receipts for installing equipment	9740					
36. Receipts for service contracts	9720					
37. TOTAL — Should equal item 6a If reporting in dollars	9990					100%

NOTE

Answer item 14 only if your Census File Number (CFN), shown in the address label of this report form, begins with a zero.

Item 14 — OWNERSHIP, CONTROL, AND LOCATIONS OF OPERATION

a. Is this company owned or controlled by another company? ☐ YES ☐ NO
 097 1 ☐ YES →
 2 ☐ NO →
 EI No. (9 digits)

b. Does this company own or control any other company or companies? ☐ YES ☐ NO
 098 1 ☐ YES →
 2 ☐ NO →
 EI No. (9 digits)

c. How many establishments were operated under the EI Number shown in the address label (or as corrected in item 1) at the end of 1987? → 079 Number

If more than one, provide the physical location address and other information indicated below for each establishment. The headquarters location should be listed on line 1, followed by other locations. If book figures are not available, estimates are acceptable. Continue with same format on a separate sheet if necessary.

NAME, ADDRESS, AND ZIP CODE	1987	Mil.	Thou.	Dol.
	Sales	081		
	Annual payroll	082		
1. KIND-OF-BUSINESS DESCRIPTION		088		
TYPE OF OPERATION (Choose from Item 11)		089		
NAME, ADDRESS, AND ZIP CODE	1987	Mil.	Thou.	Dol.
	Sales	081		
	Annual payroll	082		
2. KIND-OF-BUSINESS DESCRIPTION		088		
TYPE OF OPERATION (Choose from Item 11)		089		

Please attach a separate sheet for any explanations that may be essential in understanding your reported data.

Item 15 — CERTIFICATION — This report is substantially accurate and has been prepared in accordance with instructions.

Period covered by this report → FROM: Mo. Year TO: Mo. Year

Name of person to contact regarding this report — Print or type

Telephone → Area code Number Extension

Signature of authorized person Date

1987 CENSUS OF MANUFACTURES

DISTRIBUTION OF MANUFACTURERS' SALES BY CLASS OF CUSTOMER

OMB No. 0607-0550: Approval Expires 06/89

NOTICE — Response to this inquiry is required by law (title 13, U.S. Code). By the same law, your report to the Census Bureau is confidential. It may be seen only by sworn Census employees and may be used only for statistical purposes. The law also provides that copies retained in your files are immune from legal process.

In correspondence pertaining to this report, please refer to this Census File Number (CFN)

Employer Identification (EI) Number

MC-9601

Please complete this form and RETURN TO

BUREAU OF THE CENSUS
1201 East Tenth Street
Jeffersonville, IN 47134

DUE DATE: FEBRUARY 15, 1988

If you cannot file by the due date, a time extension request should be sent to the above address; please include your 11-digit Census File Number (CFN).

Note — Please read all instructions on this page before answering items 1—3 on the reverse.

Please correct errors in name, address, and ZIP Code. ENTER street and number if not shown.

GENERAL INSTRUCTIONS

(See also specific instructions with Product Group Reference List)

► SURVEY DESCRIPTION

As part of the 1987 Census of Manufactures, the Bureau of the Census is conducting this survey on Distribution of Manufacturers' Sales by Class of Customer. This survey is conducted every 10 years and was last done as part of the 1977 Census of Manufactures. (Similar information on the sales of wholesalers by class of customer is collected in the Census of Business for 1987 on forms CB-5012—CB-5199.) This survey will provide a current analysis of the marketing channels through which goods move from the manufacturer to the user or consumer. The results are needed for the improvement of the national income and product statistics.

- **HOW TO REPORT** — You are requested to provide a summary company level report on the shipment of groups of products as reported by your manufacturing establishments on census forms for 1987. The reference list which accompanies this report shows the product group categories for which class of customer information is to be reported. These 4-digit categories represent combinations of the 7-digit product shipments reported in item 188 of your census forms based on the first 4 digits of the 7-digit code. (A detailed example illustrating this cumulative process can be found on pages 2 and 3 of the reference list.) Report at FOB factory value.

Please indicate at the top of the columns on this MC-9601 report form those product group codes which best fit the description of your manufacturing activities. If you reported values for products bought and sold in the same condition (resales), code 99999 00 6 of your census report form, allocate that amount to the appropriate product group. Please estimate the percent of each product group which is resales on line 11. Exclude miscellaneous receipts and receipts for contract and commission work.

We appreciate that there is no uniform system of sales analysis and that completeness of records varies considerably among companies. Therefore, it will be necessary for companies to derive estimates based on any information available as to the type of economic activity of their customers. Approximations are acceptable.

► DESCRIPTION OF CLASS OF CUSTOMER

Shipments to other establishments of this company —

These shipments should be allocated on lines 1—4, according to type of business activity of these locations.

- **Wholesale establishments** — line 1 — Include not only shipments to wholesale locations but also shipments to or on order from sales branches, sales offices, and administrative offices which operate primarily to sell products manufactured by your company. These activities are reported on Census of Business Forms CB-5012—CB-5199 and on Form ES-9200, Central Administrative Offices and Auxiliaries.
- **Retail stores and outlets** — line 2 — Report shipments to separately operated retail stores which also report in the Census of Business for this company.
- **Manufacturing establishments** — line 3 — Report all transfers or shipments from one manufacturing plant of this company to another whether for further processing, for use as a material or supply, or for resales by the other plants.
- **Other establishments** — line 4 — Report shipments to other plants of this company such as mining, construction, transportation, communication, services, etc.

Shipments to other companies, governments, individuals, and for export —

These shipments should be allocated according to type of customer on lines 5—9. Report shipments on consignment as though the merchandise had been sold at the time of the shipment. If such consignment shipments are to agents, consider the agent as a wholesaler.

- **Wholesalers** — line 5 — Report shipments to companies that are purchasing primarily to resell the products to other businesses or institutions. Include industrial distributors, drop shippers, desk jobbers, voluntary group wholesalers, retail cooperative warehouses, and exporters.
- **Retailers** — line 6 — Report shipments to eating and drinking places, chain stores, mail order houses, department stores, independent retailers, including independent route salesmen such as bakery or dairy truck distributors who sell directly to households. Include shipments to lumber yards; paint, glass, and wallpaper stores; electrical supply stores; heating equipment dealers; farm and garden supply stores; and farm equipment dealers.
- **Manufacturers** — line 7 — Include as manufacturers, food processors such as meat packers, bakeries, dairies, and bottling plants; sheet metal operations; feed mixers; loggers; sawmills; printing; publishing; ready mixed concrete; apparel jobbers; and machine shops.
- **Federal, State, and local governments** — line 8 — Include sales to all branches and agencies of all levels of government and to corporations owned by the Federal Government. If you have sales as a subcontractor on a government contract, report your sales according to the activity of the prime contractor for whom you did the work.
- **Other** — line 9 — Includes the following:
 - a. Construction companies
 - b. Mining companies
 - c. Utility companies
 - d. Transportation companies
 - e. Private and public institutions (e.g., hospitals and schools)
 - f. Banks
 - g. Hotels
 - h. Individuals
 - i. Households
 - j. Farmers
 - k. Exports (Include products directly exported by your company. Products shipped to export intermediaries should be reported as shipped to wholesalers.)

REMARKS — Please use this space for any explanations that may be essential in understanding your reported data.

CERTIFICATION — This report is substantially accurate and has been prepared in accordance with instructions.

Name of person to contact regarding this report <small>Print or type</small>		Telephone		Period covered by this report	FROM: Mo. Year	TO: Mo. Year
		Area code	Number				Extension
Address — Number and street				Signature of authorized person		
City	State	ZIP Code		Title	Date	



U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS

FORM

MC-9602

1987 CENSUS OF MANUFACTURES

DISTRIBUTION OF MANUFACTURERS' SALES BY CLASS OF CUSTOMER

OMB No. 0607-0556 Approval Expires 06/85

NOTICE — Response to this inquiry is required by law (title 13, U.S. Code). By the same law, your report to the Census Bureau is confidential. It may be seen only by sworn Census employees and may be used only for statistical purposes. The law also provides that copies retained in your files are immune from legal process.

Please complete this form and RETURN TO

BUREAU OF THE CENSUS
1201 East Tenth Street
Jeffersonville, IN 47134

DUE DATE: FEBRUARY 15, 1988

If you cannot file by the due date, a time extension request should be sent to the above address; please include your 11-digit Census File Number (CFN).

Note — Please read all instructions on this page before answering items 1—3 on the reverse.

In correspondence pertaining to this report, please refer to this Census File Number (CFN)

Employer Identification (EI) Number

MC-9602

Please correct errors in name, address, and ZIP Code. ENTER street and number if not shown.

INSTRUCTIONS

► SURVEY DESCRIPTION

As part of the 1987 Census of Manufactures, the Bureau of the Census is conducting this survey on Distribution of Manufacturers' Sales by Class of Customer. This survey is conducted every 10 years and was last done as part of the 1977 Census of Manufactures. (Similar information on the sales of wholesalers by class of customer is being collected in the Census of Business for 1987 on forms CB-5012—CB-5199.) This survey will provide a current analysis of the marketing channels through which goods move from the manufacturer to the user or consumer. The results are needed for the improvement of the national income and product statistics.

► HOW TO REPORT

— This report provides a summary of the distribution of the shipments of this establishment by class of customer. The total value of products distributed should approximately equal the total value reported on the accompanying 1987 Census of Manufactures report form.

This report will measure the flow of products from this establishment to its customers. Please report in column (B) the value of all of your products, whether made in this establishment or purchased and sold without further fabrication, shipped to each of the class of customer categories listed in column (A). Report shipments on consignment as though the merchandise had been sold at the time of the shipment. If such consignment shipments are to agents, consider the agent as a wholesaler.

We appreciate that there is no uniform system of sales analysis and that completeness of records varies considerably among companies. Therefore, it will be necessary for companies to derive estimates based on any information available as to the type of economic activity of their customers. Approximations are acceptable.

► DESCRIPTION OF CLASS OF CUSTOMER

Shipments to other establishments of this company —

These shipments should be allocated on lines 1—4, according to type of business activity of these locations.

- **Wholesale establishments — line 1** — Include not only shipments to wholesale locations but also shipments to or on order from sales branches, sales offices, and administrative offices which operate primarily to sell products manufactured by your company. These activities are reported on Census of Business Forms CB-5012—CB-5199 and on Form ES-9200, Central Administrative Offices and Auxiliaries.
- **Retail stores and outlets — line 2** — Report shipments to separately operated retail stores which also report in the Census of Business for this company.
- **Manufacturing establishments — line 3** — Report all transfers or shipments from one manufacturing plant of this company to another whether for further processing, for use as a material or supply, or for resales by the other plants.
- **Other establishments — line 4** — Report shipments to other plants of this company such as mining, construction, transportation, communication, services, etc.

Shipments to other companies, governments, individuals, and for export —

These shipments should be allocated according to type of customer on lines 5—9. Report shipments on consignment as though the merchandise had been sold at the time of the shipment. If such consignment shipments are to agents, consider the agent as a wholesaler.

- **Wholesalers — line 5** — Report shipments to companies that are purchasing primarily to resell the products to other businesses or institutions. Include industrial distributors, drop shippers, desk jobbers, voluntary group wholesalers, retail cooperative warehouses, and exporters.
- **Retailers — line 6** — Report shipments to eating and drinking places, chain stores, mail order houses, department stores, independent retailers, including independent route salesmen such as bakery or dairy truck distributors who sell directly to households. Include shipments to lumber yards; paint, glass, end wallpaper stores; electrical supply stores; heating equipment dealers; farm and garden supply stores; and farm equipment dealers.
- **Manufacturers — line 7** — Include as manufacturers, food processors such as meat packers, bakeries, dairies, and bottling plants; sheet metal operations; feed mixers; loggers; sawmills; printing; publishing; ready mixed concrete; apparel jobbers; and machine shops.
- **Federal, State, and local governments — line 8** — Include sales to all branches and agencies of all levels of government and to corporations owned by the Federal Government. If you have sales as a subcontractor on a government contract, report your sales according to the activity of the prime contractor for whom you did the work.
- **Other — line 9** — Includes the following:
 - a. Construction companies
 - b. Mining companies
 - c. Utility companies
 - d. Transportation companies
 - e. Private and public institutions (e.g., hospitals and schools)
 - f. Banks
 - g. Hotels
 - h. Individuals
 - i. Households
 - j. Farmers
 - k. Exports (Include products directly exported by your company. Products shipped to export intermediaries should be reported as shipped to wholesalers.)

REMARKS — Please use this space for any explanations that may be essential in understanding your reported data.

CONTINUE ON REVERSE →

Item 1 — Distribution of sales					
Line No.	Class of customer (A)	Key	Value of products shipped (\$)		
			Millions	Thousands	Dollars
1	SHIPMENTS TO OTHER ESTABLISHMENTS OF THIS COMPANY	102	\$		
2	Wholesale establishments (including those shipments to or on order from your separate sales branches, sales offices, and administrative offices)	103			
3	Retail stores and outlets (See item 3)	104			
4	Manufacturing establishments (usually for further processing)	105			
5	Other establishments (mining, construction service, transportation, communication, etc.)	106			
6	SHIPMENTS TO OTHER COMPANIES, GOVERNMENTS, INDIVIDUALS, AND FOR EXPORT	107			
7	Wholesalers	108			
8	Retailers (See item 3)	109			
9	Manufacturers	110			
10	Federal, State, and local governments	111			
11	Other (including construction, mining, utility, and transportation companies; private and public institutions; banks, hotels, and other service-type businesses; and for exports. Include also direct sales to individual households, farmers, etc.)	112			
12	TOTAL (Sum of lines 1—9 should approximate the sum of product shipments reported in item 18B, of your Census of Manufactures reports, including an allowance for any products bought and sold without further fabrication.)	113	\$		
13	Receipts for work done for others on their materials (same as contract receipt values in item 18B on Census Manufactures report form)	114			
14	Miscellaneous receipts (sum of miscellaneous receipts reported in item 18B on Census of Manufactures report form)	115			
15	TOTAL (Sum of lines 10—12 should be the same as total value of shipments reported in item 18B of your Census of Manufactures report form.)	116	\$		
Item 2 — Approximate percent of shipments reported on line 10 that are products bought and sold (resales) without further fabrication by the establishment making the shipment.			Percentage		
			117 %		
Item 3 — If data are reported on line 2 or 6, do they include shipments of food products to eating and drinking places?					
<input type="checkbox"/> 118 1 <input type="checkbox"/> Yes — If "Yes," estimate the percentage of retail shipments going to eating and drinking places. _____ 2 <input type="checkbox"/> No			119 %		
REMARKS — Please use this space for any explanations that may be essential in understanding your reported data.					

CERTIFICATION — This report is substantially accurate and has been prepared in accordance with instructions.						
Name of person to contact regarding this report — Print or type		Telephone		Period covered by this report	FROM: Mo. Year	TO: Mo. Year
		Area code	Number		Extension	
Address — Number and street				Signature of authorized person		
City	State	ZIP Code	Title		Date	



U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS

FORM

MC-9603

1987 CENSUS OF MANUFACTURES

DISTRIBUTION OF MANUFACTURERS' SALES BY CLASS OF CUSTOMER

OMB No. 0807-0558: Approval Expires 08/89

NOTICE — Response to this inquiry is required by law (title 13, U.S. Code). By the same law, your report to the Census Bureau is confidential. It may be seen only by sworn Census employees and may be used only for statistical purposes. The law also provides that copies retained in your files are immune from legal process.

Please complete this form and RETURN TO

BUREAU OF THE CENSUS
1201 East Tenth Street
Jeffersonville, IN 47134

DUE DATE: FEBRUARY 15, 1988

If you cannot file by the due date, a time extension request should be sent to the above address; please include your 11-digit Census File Number (CFN).

Note — Please read all instructions on this page before answering items 1–3 below.

In correspondence pertaining to this report, please refer to this Census File Number (CFN)

Employer Identification (EI) Number

MC-9603

Please correct errors in name, address, and ZIP Code. ENTER street and number if not shown.

INSTRUCTIONS

► SURVEY DESCRIPTION

As part of the 1987 Census of Manufactures, the Bureau of the Census is conducting this survey on Distribution of Manufacturers' Sales by Class of Customer. This survey is conducted every 10 years and was last done as part of the 1977 Census of Manufactures. (Similar information on the sales of wholesalers by class of customer is being collected in the Census of Business for 1987 on forms CB-5012—CB-5199.) This survey will provide a current analysis of the marketing channels through which goods move from the manufacturer to the user or consumer. The results are needed for the improvement of the national income and product statistics.

► HOW TO REPORT

This report provides a summary of the distribution of the shipments of this establishment by class of customer. The total value of products distributed should approximately equal the total value reported on the accompanying 1987 Census of Manufactures report form.

This report will measure the flow of products from this establishment to its customers. Please report in column (B) the value of all of your products, whether made in this establishment or purchased and sold without further fabrication, shipped to each of the class of customer categories listed in column (A). Report shipments on consignment as though the merchandise had been sold at the time of the shipment. If such consignment shipments are to agents, consider the agent as a wholesaler.

We appreciate that there is no uniform system of sales analysis and that completeness of records varies considerably among companies. Therefore, it will be necessary for companies to derive estimates based on any information available as to the type of economic activity of their customers. Approximations are acceptable.

• **Wholesalers — line 1** — Report shipments to companies that are purchasing primarily to resell the products to other businesses or institutions. Include industrial distributors, drop shippers, desk jobbers, voluntary group wholesalers, retail cooperative warehouses, and exporters.

• **Retailers — line 2** — Report shipments to eating and drinking places, chain stores, mail order houses, department stores, independent retailers, including independent route salesmen such as bakery or dairy truck distributors who sell directly to households. Include shipments to lumber yards; paint, glass, and wallpaper stores; electrical supply stores; heating equipment dealers; farm and garden supply stores; and farm equipment dealers.

• **Manufacturers — line 3** — Include as manufacturers, food processors such as meat packers, bakeries, dairies, and bottling plants; sheet metal operations; feed mixers; loggers; sawmills; printing; publishing; ready mixed concrete; apparel jobbers; and machine shops.

• **Federal, State, and local governments — line 4** — Include sales to all branches and agencies of all levels of government and to corporations owned by the Federal Government. If you have sales as a subcontractor on a government contract, report your sales according to the activity of the prime contractor for whom you did the work.

• **Other — line 5** — Includes the following:

- e. Construction companies
- f. Mining companies
- c. Utility companies
- d. Transportation companies
- e. Private and public institutions (e.g., hospitals and schools)
- f. Banks
- g. Hotels
- h. Individuals
- i. Households
- j. Farmers
- k. Exports (Include products directly exported by your company. Products shipped to export intermediaries should be reported as shipped to wholesalers.)

Item 1 — Distribution of sales

Line No.	Class of customer (A)	Key	Value of products shipped (B)		
			Millions	Thousands	Dollars
1	Wholesalers	201	\$		
2	Retailers (See item 3)	202			
3	Manufacturers	203			
5	Federal, State, and local governments	205			
5	Other (including construction, mining, utility, and transportation companies; private and public institutions; banks, hotels, and other service-type businesses; and for exports. Include also direct sales to individual households, farmers, etc.)	205			
6	TOTAL (Sum of lines 1–5 should approximate the sum of product shipments reported in item 18B of your Census of Manufactures reports, including an allowance for any products bought and sold without further fabrication.)	206	\$		
7	Receipts for work done for others on their materials (same as contract receipt values in item 18B on Census of Manufactures report form)	207			
8	Miscellaneous receipts (sum of miscellaneous receipts reported in item 18B on Census of Manufactures report form)	208			
8	TOTAL (Sum of lines 6–8 should be the same as total value of shipments reported in item 18B of your Census of Manufactures report form.)	209	\$		

Item 2 — Approximate percent of shipments reported on line 6 that are products bought and sold (resales) without further fabrication by the establishment making the shipment.

Percentage
210 %

Item 3 — If data are reported on line 2, do they include shipments of food products to eating and drinking places?

211 1 ☐ Yes — If "Yes," estimate the percentage of retail shipments going to eating and drinking places.
2 ☐ No
212 %

REMARKS — Please use this space for any explanations that may be essential in understanding your reported data.

CERTIFICATION — This report is substantially accurate and has been prepared in accordance with instructions.

Name of person to contact regarding this report — Print or type	Area code	Telephone Number	Extension	Period covered by this report	FROM: Mo. Year	TO: Mo. Year
Address — Number and street				Signature of authorized person		
City	State	ZIP Code	Title		Date	

APPENDIX E.

Authority for Census: Title 13, United States Code

COLLECTION AND PUBLICATION; FIVE-YEAR PERIODS (131)

The Secretary shall take, compile, and publish censuses of manufactures, of mineral industries, and of other businesses ... in the year 1964, then in the year 1968, and every fifth year thereafter, and each such census shall relate to the year immediately preceding the taking thereof.

GEOGRAPHIC SCOPE OF CENSUSES (191A)

(a)Each of the censuses authorized by this chapter shall include each State, the District of Columbia, the Virgin Islands, the Commonwealth of Puerto Rico, and as may be determined by the Secretary, such other possessions and areas over which the United States exercises jurisdiction, control, or sovereignty. Inclusion of the other areas over which the United States exercises jurisdiction or control shall be subject to the concurrence of the Secretary of State.

WRONGFUL DISCLOSURE OF INFORMATION (214)

Whoever, being or having been an employee or staff member referred to in subchapter II of chapter I of this title, having taken and subscribed the oath of office, or having sworn to observe the limitations imposed by section 9 of

this title, publishes or communicates any information, the disclosure of which is prohibited under the revisions of section 9 of this title, and which comes into his possession by reason of his being employed (or otherwise providing services) under the provisions of this title, shall be fined not more than \$5,000 or imprisoned not more than 5 years, or both.

FAILURE TO ANSWER QUESTIONS AFFECTING COMPANIES, BUSINESSES, RELIGIOUS BODIES, AND OTHER ORGANIZATIONS: FALSE ANSWERS (224)

Whoever, being the owner, official, agent, person in charge or assistant to the person in charge of any company, business, institution establishments, religious body, or organization of any nature whatsoever, neglects or refuses, when requested by the Secretary or other authorized officer or employee of the Department of Commerce or bureau or agency thereof, to answer completely and correctly to the best of his knowledge all questions relating to his company, business, institution, establishment, religious body, or other organization, or to records or statistics in his official custody, contained on any census or other schedule or questionnaire prepared and submitted to him under the authority of this title, shall be fined not more than \$500; and if he willfully gives a false answer to any such question, he shall be fined not more than \$10,000.

APPENDIX F.

Metropolitan Statistical Areas

[Titles and definitions shown for MSA's, PMSA's, and CMSA's are those established by the Office of Management and Budget, as of June 30, 1987]

Abilene, TX MSA

Taylor County, TX

Akron, OH PMSA—see Cleveland-Akron-Lorain, OH CMSA

Albany, GA MSA

Dougherty County, GA

Lee County, GA

Albany-Schenectady-Troy, NY MSA

Albany County, NY

Greene County, NY

Montgomery County, NY

Rensselaer County, NY

Saratoga County, NY

Schenectady County, NY

Albuquerque, NM MSA

Bernalillo County, NM

Alexandria, LA MSA

Rapides Parish, LA

Allentown-Bethlehem, PA-NJ MSA

Warren County, NJ

Carbon County, PA

Lehigh County, PA

Northampton County, PA

Altoona, PA MSA

Blair County, PA

Amarillo, TX MSA

Potter County, TX

Randall County, TX

Anaheim-Santa Ana, CA PMSA—see Los Angeles-Anaheim-Riverside, CA CMSA

Anchorage, AK MSA

Anchorage Borough, AK

Anderson, IN MSA

Madison County, IN

Anderson, SC MSA

Anderson County, SC

Ann Arbor, MI PMSA—see Detroit-Ann Arbor, MI CMSA

Anniston, AL MSA

Calhoun County, AL

Appleton-Oshkosh-Neenah, WI MSA

Calumet County, WI

Outagamie County, WI

Winnebago County, WI

Asheville, NC MSA

Buncombe County, NC

Athens, GA MSA

Clarke County, GA

Jackson County, GA

Madison County, GA

Oconee County, GA

Atlanta, GA MSA

Barrow County, GA

Butts County, GA

Cherokee County, GA

Clayton County, GA

Cobb County, GA

Coweta County, GA

De Kalb County, GA

Douglas County, GA

Atlanta, GA MSA—Con.

Fayette County, GA

Forsyth County, GA

Fulton County, GA

Gwinnett County, GA

Henry County, GA

Newton County, GA

Paulding County, GA

Rockdale County, GA

Spalding County, GA

Walton County, GA

Atlantic City, NJ MSA

Atlantic County, NJ

Cape May County, NJ

Augusta, GA-SC MSA

Columbia County, GA

McDuffie County, GA

Richmond County, GA

Aiken County, SC

Aurora-Elgin, IL PMSA—see Chicago-Gary-Lake County, IL-IN-WI CMSA

Austin, TX MSA

Hays County, TX

Travis County, TX

Williamson County, TX

Bakersfield, CA MSA

Kern County, CA

Baltimore, MD MSA

Anne Arundel County, MD

Baltimore County, MD

Carroll County, MD

Harford County, MD

Howard County, MD

Queen Anne's County, MD

Baltimore city, MD

Bangor, ME MSA

Penobscot County, ME (part)

Bangor city, ME

Brewer city, ME

Eddington town, ME

Glenburn town, ME

Hampden town, ME

Hermon town, ME

Holden town, ME

Kenduskeag town, ME

Old Town city, ME

Orono town, ME

Orrington town, ME

Penobscot Indian Island Indian Reservation, ME

Veazie town, ME

Waldo County, ME (part)

Winterport town, ME

Baton Rouge, LA MSA

Ascension Parish, LA

East Baton Rouge Parish, LA

Livingston Parish, LA

West Baton Rouge Parish, LA

Battle Creek, MI MSA

Calhoun County, MI

Beaumont-Port Arthur, TX MSA

Hardin County, TX

Jefferson County, TX

Orange County, TX

Beaver County, PA PMSA—see Pittsburgh-Beaver Valley, PA CMSA

Bellingham, WA MSA

Whatcom County, WA

Benton Harbor, MI MSA

Berrien County, MI

Bergen-Passaic, NJ PMSA—see New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA

Billings, MT MSA

Yellowstone County, MT

Biloxi-Gulfport, MS MSA

Hancock County, MS

Harrison County, MS

Binghamton, NY MSA

Broome County, NY

Tioga County, NY

Birmingham, AL MSA

Blount County, AL

Jefferson County, AL

St. Clair County, AL

Shelby County, AL

Walker County, AL

Bismarck, ND MSA

Burleigh County, ND

Morton County, ND

Bloomington, IN MSA

Monroe County, IN

Bloomington-Normal, IL MSA

McLean County, IL

Boise City, ID MSA

Ada County, ID

Boston, MA PMSA—see Boston-Lawrence-Salem, MA-NH CMSA

Boston-Lawrence-Salem, MA-NH CMSA

Boston, MA PMSA

Bristol County, MA (part)

Mansfield town, MA

Norton town, MA

Raynham town, MA

Essex County, MA (part)

Lynn city, MA

Lynnfield town, MA

Nahant town, MA

Saugus town, MA

Middlesex County, MA (part)

Acton town, MA

Arlington town, MA

Ashland town, MA

Ayer town, MA

Bedford town, MA

Belmont town, MA

Boxborough town, MA

Burlington town, MA

Cambridge city, MA

Carlisle town, MA

Concord town, MA

Boston-Lawrence-Salem, MA-NH CMSA—Con.

Boston, MA PMSA—Con.

Middlesex County, MA (part)—Con.

Everett city, MA
 Framingham town, MA
 Groton town, MA
 Holliston town, MA
 Hopkinton town, MA
 Hudson town, MA
 Lexington town, MA
 Lincoln town, MA
 Littleton town, MA
 Malden city, MA
 Marlborough city, MA
 Maynard town, MA
 Medford city, MA
 Melrose city, MA
 Natick town, MA
 Newton city, MA
 North Reading town, MA
 Reading town, MA
 Sherborn town, MA
 Shirley town, MA
 Somerville city, MA
 Stoneham town, MA
 Stow town, MA
 Sudbury town, MA
 Townsend town, MA
 Wakefield town, MA
 Waltham city, MA
 Watertown town, MA
 Wayland town, MA
 Weston town, MA
 Wilmington town, MA
 Winchester town, MA
 Woburn city, MA

Norfolk County, MA (part)

Bellingham town, MA
 Braintree town, MA
 Brookline town, MA
 Canton town, MA
 Cohasset town, MA
 Dedham town, MA
 Dover town, MA
 Foxborough town, MA
 Franklin town, MA
 Holbrook town, MA
 Medfield town, MA
 Medway town, MA
 Millis town, MA
 Milton town, MA
 Needham town, MA
 Norfolk town, MA
 Norwood town, MA
 Quincy city, MA
 Randolph town, MA
 Sharon town, MA
 Stoughton town, MA
 Walpole town, MA
 Wellesley town, MA
 Westwood town, MA
 Weymouth town, MA
 Wrentham town, MA

Plymouth County, MA (part)

Carver town, MA
 Duxbury town, MA
 Hanover town, MA
 Hanson town, MA
 Hingham town, MA
 Hull town, MA

Boston-Lawrence-Salem, MA-NH CMSA—Con.

Boston, MA PMSA—Con.

Plymouth County, MA (part)—Con.

Kingston town, MA
 Lakeville town, MA
 Marshfield town, MA
 Middleborough town, MA
 Norwell town, MA
 Pembroke town, MA
 Plymouth town, MA
 Plympton town, MA
 Rockland town, MA
 Scituate town, MA
 Suffolk County, MA (part)
 Boston city, MA
 Chelsea city, MA
 Revere city, MA
 Winthrop town, MA
 Worcester County, MA (part)
 Berlin town, MA
 Bolton town, MA
 Harvard town, MA
 Hopedale town, MA
 Lancaster town, MA
 Mendon town, MA
 Milford town, MA
 Southborough town, MA
 Upton town, MA

Brockton, MA PMSA

Bristol County, MA (part)

Easton town, MA

Norfolk County, MA (part)

Avon town, MA

Plymouth County, MA (part)

Abington town, MA
 Bridgewater town, MA
 Brockton city, MA
 East Bridgewater town, MA
 Halifax town, MA
 West Bridgewater town, MA
 Whitman town, MA

Lawrence-Haverhill, MA-NH PMSA

Essex County, MA (part)

Amesbury town, MA
 Andover town, MA
 Boxford town, MA
 Georgetown town, MA
 Groveland town, MA
 Haverhill city, MA
 Lawrence city, MA
 Merrimac town, MA
 Methuen town, MA
 Newbury town, MA
 Newburyport city, MA
 North Andover town, MA
 Salisbury town, MA
 West Newbury town, MA

Rockingham County, NH (part)

Atkinson town, NH
 Brentwood town, NH
 Danville town, NH
 Derry town, NH
 East Kingston town, NH
 Hampstead town, NH
 Kingston town, NH
 Newton town, NH
 Plaistow town, NH
 Salem town, NH
 Sandown town, NH
 Seabrook town, NH
 Windham town, NH

Boston-Lawrence-Salem, MA-NH CMSA—Con.

Lowell, MA-NH PMSA

Middlesex County, MA (part)

Billerica town, MA
 Chelmsford town, MA
 Dracut town, MA
 Dunstable town, MA
 Lowell city, MA
 Pepperell town, MA
 Tewksbury town, MA
 Tyngsborough town, MA
 Westford town, MA

Hillsborough County, NH (part)

Pelham town, NH

Nashua, NH PMSA

Hillsborough County, NH (part)

Amherst town, NH
 Brookline town, NH
 Hollis town, NH
 Hudson town, NH
 Litchfield town, NH
 Merrimack town, NH
 Milford town, NH
 Mont Vernon town, NH
 Nashua city, NH
 Wilton town, NH

Rockingham County, NH (part)

Londonderry town, NH

Salem-Gloucester, MA PMSA

Essex County, MA (part)

Beverly city, MA
 Danvers town, MA
 Essex town, MA
 Gloucester city, MA
 Hamilton town, MA
 Ipswich town, MA
 Manchester town, MA
 Marblehead town, MA
 Middleton town, MA
 Peabody city, MA
 Rockport town, MA
 Rowley town, MA
 Salem city, MA
 Swampscott town, MA
 Topsfield town, MA
 Wenham town, MA

Boulder-Longmont, CO PMSA—see Denver-**Boulder, CO CMSA****Bradenton, FL MSA**

Manatee County, FL

Brazoria, TX PMSA—see Houston-Galveston-**Brazoria, TX CMSA****Bremerton, WA MSA**

Kitsap County, WA

Bridgeport-Milford, CT PMSA—see New York-**Northern New Jersey-Long Island, NY-**
NJ-CT CMSA**Bristol, CT PMSA—see Hartford-New Britain-**
Middletown, CT CMSA**Brockton, MA PMSA—see Boston-Lawrence-**
Salem, MA-NH CMSA**Brownsville-Harlingen, TX MSA**

Cameron County, TX

Bryan-College Station, TX MSA

Brazos County, TX

Buffalo, NY PMSA—see Buffalo-Niagara Falls,
NY CMSA

Buffalo-Niagara Falls, NY CMSA

Buffalo, NY PMSA
 Erie County, NY
 Niagara Falls, NY PMSA
 Niagara County, NY

Burlington, NC MSA

Alamance County, NC

Burlington, VT MSA

Chittenden County, VT (part)
 Burlington city, VT
 Charlotte town, VT
 Colchester town, VT
 Essex Junction village, VT
 Essex town balance, VT
 Hinesburg town, VT
 Jericho town, VT
 Jericho village, VT
 Milton town, VT
 Milton village, VT
 Richmond town, VT
 Richmond village, VT
 St. George town, VT
 Shelburne town, VT
 South Burlington city, VT
 Williston town, VT
 Winooski city, VT
 Franklin County, VT (part)
 Georgia town, VT
 Grand Isle town, VT
 South Hero town, VT

Canton, OH MSA

Carroll County, OH
 Stark County, OH

Casper, WY MSA

Natrona County, WY

Cedar Rapids, IA MSA

Linn County, IA

Champaign-Urbana-Rantoul, IL MSA

Champaign County, IL

Charleston, SC MSA

Berkeley County, SC
 Charleston County, SC
 Dorchester County, SC

Charleston, WV MSA

Kanawha County, WV
 Putnam County, WV

Charlotte-Gastonia-Rock Hill, NC-SC MSA

Cabarrus County, NC
 Gaston County, NC
 Lincoln County, NC
 Mecklenburg County, NC
 Rowan County, NC
 Union County, NC
 York County, SC

Charlottesville, VA MSA

Albemarle County, VA
 Fluvanna County, VA
 Greene County, VA
 Charlottesville city, VA

Chattanooga, TN-GA MSA

Catoosa County, GA
 Dade County, GA
 Walker County, GA
 Hamilton County, TN
 Marion County, TN
 Sequatchie County, TN

Cheyenne, WY MSA

Laramie County, WY

Chicago, IL PMSA—see Chicago-Gary-Lake County, IL-IN-WI CMSA**Chicago-Gary-Lake County, IL-IN-WI CMSA**

Aurora-Elgin, IL PMSA
 Kane County, IL
 Kendall County, IL
 Chicago, IL PMSA
 Cook County, IL
 Du Page County, IL
 McHenry County, IL
 Gary-Hammond, IN PMSA
 Lake County, IN
 Porter County, IN
 Joliet, IL PMSA
 Grundy County, IL
 Will County, IL
 Kenosha, WI PMSA
 Kenosha County, WI
 Lake County, IL PMSA
 Lake County, IL

Chico, CA MSA

Butte County, CA

Cincinnati, OH-KY-IN PMSA—see Cincinnati-Hamilton, OH-KY-IN CMSA**Cincinnati-Hamilton, OH-KY-IN CMSA****Cincinnati-Hamilton, OH-KY-IN CMSA**

Cincinnati, OH-KY-IN PMSA
 Dearborn County, IN
 Boone County, KY
 Campbell County, KY
 Kenton County, KY
 Clermont County, OH
 Hamilton County, OH
 Warren County, OH
 Hamilton-Middletown, OH PMSA
 Butler County, OH

Clarksville-Hopkinsville, TN-KY MSA

Christian County, KY
 Montgomery County, TN

Cleveland, OH PMSA—see Cleveland-Akron-Lorain, OH CMSA**Cleveland-Akron-Lorain, OH CMSA**

Akron, OH PMSA
 Portage County, OH
 Summit County, OH
 Cleveland, OH PMSA
 Cuyahoga County, OH
 Geauga County, OH
 Lake County, OH
 Medina County, OH
 Lorain-Elyria, OH PMSA
 Lorain County, OH

Colorado Springs, CO MSA

El Paso County, CO

Columbia, MO MSA

Boone County, MO

Columbia, SC MSA

Lexington County, SC
 Richland County, SC

Columbus, GA-AL MSA

Russell County, AL
 Chattahoochee County, GA
 Muscogee County, GA

Columbus, OH MSA

Delaware County, OH
 Fairfield County, OH
 Franklin County, OH
 Licking County, OH
 Madison County, OH
 Pickaway County, OH
 Union County, OH

Corpus Christi, TX MSA

Nueces County, TX
 San Patricio County, TX

Cumberland, MD-WV MSA

Allegany County, MD
 Mineral County, WV

Dallas, TX PMSA—see Dallas-Fort Worth, TX CMSA**Dallas-Fort Worth, TX CMSA**

Dallas, TX PMSA
 Collin County, TX
 Dallas County, TX
 Denton County, TX
 Ellis County, TX
 Kaufman County, TX
 Rockwall County, TX
 Fort Worth-Arlington, TX PMSA
 Johnson County, TX
 Parker County, TX
 Tarrant County, TX

Danbury, CT PMSA—see New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA**Danville, VA MSA**

Pittsylvania County, VA
 Danville city, VA

Davenport-Rock Island-Moline, IA-IL MSA

Henry County, IL
 Rock Island County, IL
 Scott County, IA

Dayton-Springfield, OH MSA

Clark County, OH
 Greene County, OH
 Miami County, OH
 Montgomery County, OH

Daytona Beach, FL MSA

Volusia County, FL

Decatur, IL MSA

Macon County, IL

Denver, CO PMSA—see Denver-Boulder, CO CMSA**Denver-Boulder, CO CMSA**

Boulder-Longmont, CO PMSA
 Boulder County, CO
 Denver, CO PMSA
 Adams County, CO
 Arapahoe County, CO
 Denver County, CO
 Douglas County, CO
 Jefferson County, CO

Des Moines, IA MSA

Dallas County, IA
 Polk County, IA
 Warren County, IA

Detroit, MI PMSA—see Detroit-Ann Arbor, MI CMSA**Detroit-Ann Arbor, MI CMSA**

Ann Arbor, MI PMSA
 Washtenaw County, MI
 Detroit, MI PMSA
 Lapeer County, MI
 Livingston County, MI
 Macomb County, MI
 Monroe County, MI
 Oakland County, MI
 St. Clair County, MI
 Wayne County, MI

Dothan, AL MSA

Dale County, AL
 Houston County, AL

Dubuque, IA MSA

Dubuque County, IA

Duluth, MN-WI MSA
 St. Louis County, MN
 Douglas County, WI

Eau Claire, WI MSA
 Chippewa County, WI
 Eau Claire County, WI

El Paso, TX MSA
 El Paso County, TX

Elkhart-Goshen, IN MSA
 Elkhart County, IN

Elmira, NY MSA
 Chemung County, NY

Enid, OK MSA
 Garfield County, OK

Erie, PA MSA
 Erie County, PA

Eugene-Springfield, OR MSA
 Lane County, OR

Evansville, IN-KY MSA
 Posey County, IN
 Vanderburgh County, IN
 Warrick County, IN
 Henderson County, KY

Fall River, MA-RI PMSA—see Providence-Pawtucket-Fall River, RI-MA CMSA

Fargo-Moorhead, ND-MN MSA
 Clay County, MN
 Cass County, ND

Fayetteville, NC MSA
 Cumberland County, NC

Fayetteville-Springdale, AR MSA
 Washington County, AR

Fitchburg-Leominster, MA MSA
 Middlesex County, MA (part)
 Ashby town, MA
 Worcester County, MA (part)
 Ashburnham town, MA
 Fitchburg city, MA
 Leominster city, MA
 Lunenburg town, MA
 Westminster town, MA

Flint, MI MSA
 Genesee County, MI

Florence, AL MSA
 Colbert County, AL
 Lauderdale County, AL

Florence, SC MSA
 Florence County, SC

Fort Collins-Loveland, CO MSA
 Larimer County, CO

Fort Lauderdale-Hollywood-Pompano Beach, FL PMSA—see Miami-Fort Lauderdale, FL CMSA

Fort Myers-Cape Coral, FI MSA
 Lee County, FL

Fort Pierce, FL MSA
 Martin County, FL
 St. Lucie County, FL

Fort Smith, AR-OK MSA
 Crawford County, AR
 Sebastian County, AR
 Sequoyah County, OK

Fort Walton Beach, FL MSA
 Okaloosa County, FL

Fort Wayne, IN MSA
 Allen County, IN
 De Kalb County, IN
 Whitley County, IN

Fort Worth-Arlington, TX PMSA—see Dallas-Fort Worth, TX CMSA

Fresno, CA MSA
 Fresno County, CA

Gadsden, AL MSA
 Etowah County, AL

Gainesville, FL MSA
 Alachua County, FL
 Bradford County, FL

Galveston-Texas City, TX PMSA—see Houston-Galveston-Brazoria, TX CMSA

Gary-Hammond, IN PMSA—see Chicago-Gary-Lake County, IL-IN-WI CMSA

Glens Falls, NY MSA
 Warren County, NY
 Washington County, NY

Grand Forks, ND MSA
 Grand Forks County, ND

Grand Rapids, MI MSA
 Kent County, MI
 Ottawa County, MI

Great Falls, MT MSA
 Cascade County, MT

Greeley, CO MSA
 Weld County, CO

Green Bay, WI MSA
 Brown County, WI

Greensboro-Winston-Salem-High Point, NC MSA
 Davidson County, NC
 Davie County, NC
 Forsyth County, NC
 Guilford County, NC
 Randolph County, NC
 Stokes County, NC
 Yadkin County, NC

Greenville-Spartanburg, SC MSA
 Greenville County, SC
 Pickens County, SC
 Spartanburg County, SC

Hagerstown, MD MSA
 Washington County, MD

Hamilton-Middletown, OHPMSA—see Cincinnati-Hamilton, OH-KY-IN CMSA

Harrisburg-Lebanon-Carlisle, PA MSA
 Cumberland County, PA
 Dauphin County, PA
 Lebanon County, PA
 Perry County, PA

Hartford, CT PMSA—see Hartford-New Britain-Middletown, CT CMSA

Hartford-New Britain-Middletown, CT CMSA
 Bristol, CT PMSA
 Hartford County, CT (part)
 Bristol city, CT
 Burlington town, CT
 Litchfield County, CT (part)
 Plymouth town, CT
 Hartford, CT PMSA
 Hartford County, CT (part)
 Avon town, CT
 Bloomfield town, CT
 Canton town, CT
 East Granby town, CT
 East Hartford town, CT
 East Windsor town, CT
 Enfield town, CT
 Farmington town, CT
 Glastonbury town, CT
 Granby town, CT
 Hartford city, CT
 Manchester town, CT
 Marlborough town, CT

Hartford-New Britain-Middletown, CT CMSA—Con.
 Hartford, CT PMSA—Con.
 Hartford County, CT (part)—Con.
 Newington town, CT
 Rocky Hill town, CT
 Simsbury town, CT
 South Windsor town, CT
 Suffield town, CT
 West Hartford town, CT
 Wethersfield town, CT
 Windsor Locks town, CT
 Windsor town, CT
 Litchfield County, CT (part)
 Barkhamsted town, CT
 New Hartford town, CT
 East Haddam town, CT
 New London County, CT (part)
 Colchester borough, CT
 Colchester town balance, CT
 Tolland County, CT (part)
 Andover town, CT
 Bolton town, CT
 Columbia town, CT
 Coventry town, CT
 Ellington town, CT
 Hebron town, CT
 Somers town, CT
 Stafford Springs borough, CT
 Stafford town balance, CT
 Tolland town, CT
 Vernon town, CT
 Willington town, CT
 Middletown, CT PMSA
 Middlesex County, CT (part)
 Cromwell town, CT
 Durham town, CT
 East Hampton town, CT
 Haddam town, CT
 Middlefield town, CT
 Middletown city, CT
 Portland town, CT
 New Britain, CT PMSA
 Hartford County, CT (part)
 Berlin town, CT
 New Britain city, CT
 Plainville town, CT
 Southington town, CT

Hickory, NC MSA
 Alexander County, NC
 Burke County, NC
 Catawba County, NC

Honolulu, HI MSA
 Honolulu County, HI

Houma-Thibodaux, LA MSA
 Lafourche Parish, LA
 Terrebonne Parish, LA

Houston, TX PMSA—see Houston-Galveston-Brazoria, TX CMSA

Houston-Galveston-Brazoria, TX CMSA
 Brazoria, TX PMSA
 Brazoria County, TX
 Galveston-Texas City, TX PMSA
 Galveston County, TX
 Houston, TX PMSA
 Fort Bend County, TX
 Harris County, TX
 Liberty County, TX
 Montgomery County, TX
 Waller County, TX

Huntington-Ashland, WV-KY-OH MSA

Boyd County, KY
Carter County, KY
Greenup County, KY
Lawrence County, OH
Cabell County, WV
Wayne County, WV

Huntsville, AL MSA

Madison County, AL

Indianapolis, IN MSA

Boone County, IN
Hamilton County, IN
Hancock County, IN
Hendricks County, IN
Johnson County, IN
Marion County, IN
Morgan County, IN
Shelby County, IN

Iowa City, IA MSA

Johnson County, IA

Jackson, MI MSA

Jackson County, MI

Jackson, MS MSA

Hinds County, MS
Madison County, MS
Rankin County, MS

Jackson, TN MSA

Madison County, TN

Jacksonville, FL MSA

Clay County, FL
Duval County, FL
Nassau County, FL
St. Johns County, FL

Jacksonville, NC MSA

Onslow County, NC

Janesville-Beloit, WI MSA

Rock County, WI

Jersey City, NJ PMSA—see New York-Northern

New Jersey-Long Island, NY-NJ-CT CMSA

Johnson City-Kingsport-Bristol, TN-VA MSA

Carter County, TN
Hawkins County, TN
Sullivan County, TN
Unicoi County, TN
Washington County, TN
Scott County, VA
Washington County, VA
Bristol city, VA

Johnstown, PA MSA

Cambria County, PA
Somerset County, PA

**Joliet, IL PMSA—see Chicago-Gary-Lake
County, IL-IN-WI CMSA**

Joplin, MO MSA

Jasper County, MO
Newton County, MO

Kalamazoo, MI MSA

Kalamazoo County, MI

Kankakee, IL MSA

Kankakee County, IL

Kansas City, MO-KS MSA

Johnson County, KS
Leavenworth County, KS
Miami County, KS
Wyandotte County, KS
Cass County, MO
Clay County, MO
Jackson County, MO
Lafayette County, MO
Platte County, MO
Ray County, MO

**Kenosha, WI PMSA—see Chicago-Gary-Lake
County, IL-IN-WI CMSA**

Killeen-Temple, TX MSA

Bell County, TX
Coryell County, TX

Knoxville, TN MSA

Anderson County, TN
Blount County, TN
Grainger County, TN
Jefferson County, TN
Knox County, TN
Sevier County, TN
Union County, TN

Kokomo, IN MSA

Howard County, IN
Tipton County, IN

La Crosse, WI MSA

La Crosse County, WI

Lafayette, LA MSA

Lafayette Parish, LA
St. Martin Parish, LA

Lafayette-West Lafayette, IN MSA

Tippecanoe County, IN

Lake Charles, LA MSA

Calcasieu Parish, LA

Lake County, IL PMSA—see Chicago-Gary-

Lake County, IL-IN-WI CMSA

Lakeland-Winter Haven, FL MSA

Polk County, FL

Lancaster, PA MSA

Lancaster County, PA

Lansing-East Lansing, MI MSA

Clinton County, MI
Eaton County, MI
Ingham County, MI

Laredo, TX MSA

Webb County, TX

Las Cruces, NM MSA

Dona Ana County, NM

Las Vegas, NV MSA

Clark County, NV

Lawrence, KS MSA

Douglas County, KS

**Lawrence-Haverhill, MA-NH PMSA—see Boston-
Lawrence-Salem, MA-NH CMSA**

Lawton, OK MSA

Comanche County, OK
Lewiston-Auburn, ME MSA
Androscoggin County, ME (part)
Auburn city, ME
Greene town, ME
Lewiston city, ME
Lisbon town, ME
Mechanic Falls town, ME
Poland town, ME
Sabattus town, ME

Lexington-Fayette, KY MSA

Bourbon County, KY
Clark County, KY
Fayette County, KY
Jessamine County, KY
Scott County, KY
Woodford County, KY

Lima, OH MSA

Allen County, OH
Auglaize County, OH

Lincoln, NE MSA

Lancaster County, NE

Little Rock-North Little Rock, AR MSA

Faulkner County, AR
Lonoke County, AR
Pulaski County, AR
Saline County, AR

Longview-Marshall, TX MSA

Gregg County, TX
Harrison County, TX

**Lorain-Elyria, OH PMSA—see Cleveland-
Akron-Lorain, OH CMSA**

Los Angeles-Anaheim-Riverside, CA CMSA

Anaheim-Santa Ana, CA PMSA
Orange County, CA
Los Angeles-Long Beach, CA PMSA
Los Angeles County, CA
Oxnard-Ventura, CA PMSA
Ventura County, CA
Riverside-San Bernardino, CA PMSA
Riverside County, CA
San Bernardino County, CA

**Los Angeles-Long Beach, CA PMSA—see
Los Angeles-Anaheim-Riverside, CA CMSA**

Louisville, KY-IN MSA

Clark County, IN
Floyd County, IN
Harrison County, IN
Bullitt County, KY
Jefferson County, KY
Oldham County, KY
Shelby County, KY

**Lowell, MA-NH PMSA—see Boston-Lawrence-
Salem, MA-NH CMSA**

Lubbock, TX MSA

Lubbock County, TX

Lynchburg, VA MSA

Amherst County, VA
Campbell County, VA
Lynchburg city, VA

Macon-Warner Robins, GA MSA

Bibb County, GA
Houston County, GA
Jones County, GA
Peach County, GA

Madison, WI MSA

Dane County, WI

Manchester, NH MSA

Hillsborough County, NH (part)
Bedford town, NH
Goffstown town, NH
Manchester city, NH
Merrimack County, NH (part)
Allentown town, NH
Hooksett town, NH
Auburn town, NH
Candia town, NH

Mansfield, OH MSA

Richland County, OH

Mcallen-Edinburg-Mission, TX MSA

Hidalgo County, TX

Medford, OR MSA

Jackson County, OR

Melbourne-Titusville-Palm Bay, FL MSA

Brevard County, FL

Memphis, TN-AR-MS MSA

Crittenden County, AR
De Soto County, MS
Shelby County, TN
Tipton County, TN

Merced, CA MSA

Merced County, CA

Miami-Fort Lauderdale, FL CMSA

Fort Lauderdale-Hollywood-Pompano
Beach, FL PMSA
Broward County, FL
Miami-Hialeah, FL PMSA
Dade County, FL

Miami-Hialeah, FL PMSA—see **Miami-Fort Lauderdale, FL CMSA**

Middlesex-Somerset-Hunterdon, NJ PMSA
—see **New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA**

Middletown, CT PMSA—see **Hartford-New Britain-Middletown, CT CMSA**

Midland, TX MSA
Midland County, TX

Milwaukee, WI PMSA—see **Milwaukee-Racine, WI CMSA**

Milwaukee-Racine, WI CMSA
Milwaukee, WI PMSA
Milwaukee County, WI
Ozaukee County, WI
Washington County, WI
Waukesha County, WI
Racine, WI PMSA
Racine County, WI

Minneapolis-St. Paul, MN-WI MSA
Anoka County, MN
Carver County, MN
Chisago County, MN
Dakota County, MN
Hennepin County, MN
Isanti County, MN
Ramsey County, MN
Scott County, MN
Washington County, MN
Wright County, MN
St. Croix County, WI

Mobile, AL MSA
Baldwin County, AL
Mobile County, AL

Modesto, CA MSA
Stanislaus County, CA

Monmouth-Ocean, NJ PMSA—see **New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA**

Monroe, LA MSA
Ouachita Parish, LA

Montgomery, AL MSA
Autauga County, AL
Elmore County, AL
Montgomery County, AL

Muncie, IN MSA
Delaware County, IN

Muskegon, MI MSA
Muskegon County, MI

Naples, FL MSA
Collier County, FL

Nashua, NH PMSA—see **Boston-Lawrence-Salem, MA-NH CMSA**

Nashville, TN MSA
Cheatham County, TN
Davidson County, TN
Dickson County, TN
Robertson County, TN
Rutherford County, TN
Sumner County, TN
Williamson County, TN
Wilson County, TN

Nassau-Suffolk, NY PMSA—see **New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA**

New Bedford, MA MSA
Bristol County, MA (part)
Acushnet town, MA
Dartmouth town, MA
Fairhaven town, MA
Freetown town, MA
New Bedford city, MA

New Bedford, MA MSA—Con.
Plymouth County, MA (part)
Marion town, MA
Mattapoisett town, MA
Rochester town, MA

New Britain, CT PMSA—see **Hartford-New Britain-Middletown, CT CMSA**

New Haven-Meriden, CT MSA
Middlesex County, CT (part)
Clinton town, CT
Killingworth town, CT
New Haven County, CT (part)
Bethany town, CT
Branford town, CT
Cheshire town, CT
East Haven town, CT
Guilford town, CT
Hamden town, CT
Madison town, CT
Meriden city, CT
New Haven city, CT
North Branford town, CT
North Haven town, CT
Orange town, CT
Wallingford town, CT
West Haven city, CT
Woodbridge town, CT

New London-Norwich, CT-RI MSA
New London County, CT (part)
Bozrah town, CT
East Lyme town, CT
Franklin town, CT
Griswold town balance, CT
Groton city, CT
Groton town balance, CT
Jewett City borough, CT
Ledyard town, CT
Lisbon town, CT
Montville town, CT
New London city, CT
North Stonington town, CT
Norwich city, CT
Old Lyme town, CT
Preston town, CT
Salem town, CT
Sprague town, CT
Stonington town, CT
Waterford town, CT
Windham County, CT (part)
Canterbury town, CT
Washington County, RI (part)
Hopkinton town, RI
Westerly town, RI

New Orleans, LA MSA
Jefferson Parish, LA
Orleans Parish, LA
St. Bernard Parish, LA
St. Charles Parish, LA
St. John the Baptist Parish, LA
St. Tammany Parish, LA

New York, NY PMSA—see **New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA**

New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA
Bergen-Passaic, NJ PMSA
Bergen County, NJ
Passaic County, NJ
Bridgeport-Milford, CT PMSA
Fairfield County, CT (part)
Bridgeport city, CT
Easton town, CT
Fairfield town, CT
Monroe town, CT

New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA—Con.
Bridgeport-Milford, CT PMSA—Con.
Fairfield County, CT (part)—Con.
Shelton city, CT
Stratford town, CT
Trumbull town, CT
New Haven County, CT (part)
Ansonia city, CT
Beacon Falls town, CT
Derby city, CT
Milford city, CT
Milford town balance, CT
Oxford town, CT
Seymour town, CT
Woodmont borough, CT
Danbury, CT PMSA
Fairfield County, CT (part)
Bethel town, CT
Brookfield town, CT
Danbury city, CT
New Fairfield town, CT
Newtown town, CT
Redding town, CT
Ridgefield town, CT
Sherman town, CT
Litchfield County, CT (part)
Bridgewater town, CT
New Milford town, CT
Jersey City, NJ PMSA
Hudson County, NJ
Middlesex-Somerset-Hunterdon, NJ PMSA
Hunterdon County, NJ
Middlesex County, NJ
Somerset County, NJ
Monmouth-Ocean, NJ PMSA
Monmouth County, NJ
Ocean County, NJ
Nassau-Suffolk, NY PMSA
Nassau County, NY
Suffolk County, NY
New York, NY PMSA
Bronx County, NY
Kings County, NY
New York County, NY
Putnam County, NY
Queens County, NY
Richmond County, NY
Rockland County, NY
Westchester County, NY
Newark, NJ PMSA
Essex County, NJ
Morris County, NJ
Sussex County, NJ
Union County, NJ
Norwalk, CT PMSA
Fairfield County, CT (part)
Norwalk city, CT
Weston town, CT
Westport town, CT
Wilton town, CT
Orange County, NY PMSA
Orange County, NY
Stamford, CT PMSA
Fairfield County, CT (part)
Darien town, CT
Greenwich town, CT
New Canaan town, CT
Stamford city, CT

Newark, NJ PMSA—see New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA
Niagara Falls, NY PMSA—see Buffalo-Niagara Falls, NY CMSA
Norfolk-Virginia Beach-Newport News, VA MSA

Gloucester County, VA
James City County, VA
York County, VA
Chesapeake city, VA
Hampton city, VA
Newport News city, VA
Norfolk city, VA
Poquoson city, VA
Portsmouth city, VA
Suffolk city, VA
Virginia Beach city, VA
Williamsburg city, VA

Norwalk, CT PMSA—see New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA
Oakland, CA PMSA—see San Francisco-Oakland-San Jose, CA CMSA

Ocala, FL MSA
Marion County, FL

Odessa, TX MSA
Ector County, TX

Oklahoma City, OK MSA
Canadian County, OK
Cleveland County, OK
Logan County, OK
McClain County, OK
Oklahoma County, OK
Pottawatomie County, OK

Olympia, WA MSA
Thurston County, WA

Omaha, NE-IA MSA
Pottawattamie County, IA
Douglas County, NE
Sarpy County, NE
Washington County, NE

Orange County, NY PMSA—see New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA

Orlando, FL MSA
Orange County, FL
Osceola County, FL
Seminole County, FL

Owensboro, KY MSA
Daviess County, KY

Oxnard-Ventura, CA PMSA—see Los Angeles-Anaheim-Riverside, CA CMSA

Panama City, FL MSA
Bay County, FL

Parkersburg-Marietta, WV-OH MSA
Washington County, OH
Wood County, WV

Pascagoula, MS MSA
Jackson County, MS

Pawtucket-Woonsocket-Attleboro, RI-MA PMSA—see Providence-Pawtucket-Fall River, RI-MA CMSA

Pensacola, FL MSA
Escambia County, FL
Santa Rosa County, FL

Peoria, IL MSA
Peoria County, IL
Tazewell County, IL
Woodford County, IL

Philadelphia, PA-NJ PMSA—see Philadelphia-Wilmington-Trenton, PA-NJ-DE-MD CMSA

Philadelphia-Wilmington-Trenton, PA-NJ-DE-MD CMSA

Philadelphia, PA-NJ PMSA
Burlington County, NJ
Camden County, NJ
Gloucester County, NJ
Bucks County, PA
Chester County, PA
Delaware County, PA
Montgomery County, PA
Philadelphia County, PA

Trenton, NJ PMSA

Mercer County, NJ
Vineland-Millville-Bridgeton, NJ PMSA
Cumberland County, NJ
Wilmington, DE-NJ-MD PMSA
New Castle County, DE
Cecil County, MD
Salem County, NJ

Phoenix, AZ MSA
Maricopa County, AZ

Pine Bluff, AR MSA
Jefferson County, AR

Pittsburgh, PA PMSA—see Pittsburgh-Beaver Valley, PA CMSA

Pittsburgh-Beaver Valley, PA CMSA

Beaver County, PA PMSA
Beaver County, PA
Pittsburgh, PA PMSA
Allegheny County, PA
Fayette County, PA
Washington County, PA
Westmoreland County, PA

Pittsfield, MA MSA
Berkshire County, MA (part)
Cheshire town, MA
Dalton town, MA
Hinsdale town, MA
Lanesborough town, MA
Lee town, MA
Lenox town, MA
Pittsfield city, MA
Richmond town, MA
Stockbridge town, MA

Portland, ME MSA
Cumberland County, ME (part)
Cape Elizabeth town, ME
Cumberland town, ME
Falmouth town, ME
Freeport town, ME
Gorham town, ME
Gray town, ME
North Yarmouth town, ME
Portland city, ME
Raymond town, ME
Scarborough town, ME
South Portland city, ME
Standish town, ME
Westbrook city, ME
Windham town, ME
Yarmouth town, ME
York County, ME (part)
Buxton town, ME
Hollis town, ME
Old Orchard Beach town, ME

Portland, OR PMSA—see Portland-Vancouver, OR-WA CMSA

Portland-Vancouver, OR-WA CMSA

Portland, OR PMSA
Clackamas County, OR
Multnomah County, OR
Washington County, OR
Yamhill County, OR
Vancouver, WA PMSA
Clark County, WA

Portsmouth-Dover-Rochester, NH-ME MSA
York County, ME (part)

Berwick town, ME
Eliot town, ME
Kittery town, ME
North Berwick town, ME
Ogunquit town, ME
South Berwick town, ME
Wells town, ME
York town, ME

Rockingham County, NH (part)
Exeter town, NH
Greenland town, NH
Hampton town, NH
New Castle town, NH
Newfields town, NH
Newington town, NH
Newmarket town, NH
North Hampton town, NH
Portsmouth city, NH
Rye town, NH
Stratham town, NH
Strafford County, NH (part)
Barrington town, NH
Dover city, NH
Durham town, NH
Farmington town, NH
Lee town, NH
Madbury town, NH
Milton town, NH
Rochester city, NH
Rollinsford town, NH
Somersworth city, NH

Poughkeepsie, NY MSA
Dutchess County, NY

Providence, RI PMSA—see Providence-Pawtucket-Fall River, RI-MA CMSA

Providence-Pawtucket-Fall River, RI-MA CMSA

Fall River, MA-RI PMSA
Bristol County, MA (part)
Fall River city, MA
Somerset town, MA
Swansea town, MA
Westport town, MA
Newport County, RI (part)
Little Compton town, RI
Tiverton town, RI
Pawtucket-Woonsocket-Attleboro, RI-MA PMSA
Bristol County, MA (part)
Attleboro city, MA
North Attleborough town, MA
Rehoboth town, MA
Seekonk town, MA
Norfolk County, MA (part)
Plainville town, MA
Worcester County, MA (part)
Blackstone town, MA
Millville town, MA
Providence County, RI (part)
Burrillville town, RI
Central Falls city, RI
Cumberland town, RI
Lincoln town, RI

Providence-Pawtucket-Fall River, RI-MA CMSA—Con.

Pawtucket-Woonsocket-Attleboro, RI-MA
PMSA—Con.

Providence County, RI (part)—Con.

North Smithfield town, RI

Pawtucket city, RI

Smithfield town, RI

Woonsocket city, RI

Providence, RI PMSA

Bristol County, RI (part)

Barrington town, RI

Bristol town, RI

Warren town, RI

Kent County, RI (part)

Coventry town, RI

East Greenwich town, RI

Warwick city, RI

West Warwick town, RI

Newport County, RI (part)

Jamestown town, RI

Providence County, RI (part)

Cranston city, RI

East Providence city, RI

Foster town, RI

Glocester town, RI

Johnston town, RI

North Providence town, RI

Providence city, RI

Scituate town, RI

Washington County, RI (part)

Exeter town, RI

Narragansett town, RI

North Kingstown town, RI

Richmond town, RI

South Kingstown town, RI

Provo-Orem, UT MSA

Utah County, UT

Pueblo, CO MSA

Pueblo County, CO

**Racine, WI PMSA—see Milwaukee-Racine,
WI CMSA**

Raleigh-Durham, NC MSA

Durham County, NC

Franklin County, NC

Orange County, NC

Wake County, NC

Rapid City, SD MSA

Pennington County, SD

Reading, PA MSA

Berks County, PA

Redding, CA MSA

Shasta County, CA

Reno, NV MSA

Washoe County, NV

Richland-Kennewick-Pasco, WA MSA

Benton County, WA

Franklin County, WA

Richmond-Petersburg, VA MSA

Charles City County, VA

Chesterfield County, VA

Dinwiddie County, VA

Goochland County, VA

Hanover County, VA

Henrico County, VA

New Kent County, VA

Powhatan County, VA

Prince George County, VA

Colonial Heights city, VA

Hopewell city, VA

Petersburg city, VA

Richmond city, VA

**Riverside-San Bernardino, CA PMSA—see
Los Angeles-Anaheim-Riverside, CA CMSA**

Roanoke, VA MSA

Botetourt County, VA

Roanoke County, VA

Roanoke city, VA

Salem city, VA

Rochester, MN MSA

Olmsted County, MN

Rochester, NY MSA

Livingston County, NY

Monroe County, NY

Ontario County, NY

Orleans County, NY

Wayne County, NY

Rockford, IL MSA

Boone County, IL

Winnebago County, IL

Sacramento, CA MSA

El Dorado County, CA

Placer County, CA

Sacramento County, CA

Yolo County, CA

Saginaw-Bay City-Midland, MI MSA

Bay County, MI

Midland County, MI

Saginaw County, MI

St. Cloud, MN MSA

Benton County, MN

Sherburne County, MN

Stearns County, MN

St. Joseph, MO MSA

Buchanan County, MO

St. Louis, MO-IL MSA

Clinton County, IL

Jersey County, IL

Madison County, IL

Monroe County, IL

St. Clair County, IL

Franklin County, MO

Jefferson County, MO

St. Charles County, MO

St. Louis County, MO

St. Louis city, MO

Salem, OR MSA

Marion County, OR

Polk County, OR

**Salem-Gloucester, MA PMSA—see Boston-
Lawrence-Salem, MA-NH CMSA**

Salinas-Seaside-Monterey, CA MSA

Monterey County, CA

Salt Lake City-Ogden, UT MSA

Davis County, UT

Salt Lake County, UT

Weber County, UT

San Angelo, TX MSA

Tom Green County, TX

San Antonio, TX MSA

Bexar County, TX

Comal County, TX

Guadalupe County, TX

San Diego, CA MSA

San Diego County, CA

**San Francisco, CA PMSA—see San Francisco-
Oakland-San Jose, CA CMSA**

San Francisco-Oakland-San Jose, CA CMSA

Oakland, CA PMSA

Alameda County, CA

Contra Costa County, CA

**San Francisco-Oakland-San Jose, CA
CMSA—Con.**

San Francisco, CA PMSA

Marin County, CA

San Francisco County, CA

San Mateo County, CA

San Jose, CA PMSA

Santa Clara County, CA

Santa Cruz, CA PMSA

Santa Cruz County, CA

Santa Rosa-Petaluma, CA PMSA

Sonoma County, CA

Vallejo-Fairfield-Napa, CA PMSA

Napa County, CA

Solano County, CA

**San Jose, CA PMSA—see San Francisco-
Oakland-San Jose, CA CMSA**

Santa Barbara-Santa Maria-Lompoc, CA MSA

Santa Barbara County, CA

**Santa Cruz, CA PMSA—see San Francisco-
Oakland-San Jose, CA CMSA**

Santa Fe, NM MSA

Los Alamos County, NM

Santa Fe County, NM

**Santa Rosa-Petaluma, CA PMSA—see San
Francisco-Oakland-San Jose, CA CMSA**

Sarasota, FL MSA

Sarasota County, FL

Savannah, GA MSA

Chatham County, GA

Effingham County, GA

Scranton-Wilkes-Barre, PA MSA

Columbia County, PA

Lackawanna County, PA

Luzerne County, PA

Monroe County, PA

Wyoming County, PA

**Seattle, WA PMSA—see Seattle-Tacoma,
WA CMSA**

Seattle-Tacoma, WA CMSA

Seattle, WA PMSA

King County, WA

Snohomish County, WA

Tacoma, WA PMSA

Pierce County, WA

Sharon, PA MSA

Mercer County, PA

Sheboygan, WI MSA

Sheboygan County, WI

Sherman-Denison, TX MSA

Grayson County, TX

Shreveport, LA MSA

Bossier Parish, LA

Caddo Parish, LA

Sioux City, IA-NE MSA

Woodbury County, IA

Dakota County, NE

Sioux Falls, SD MSA

Minnehaha County, SD

South Bend-Mishawaka, IN MSA

St. Joseph County, IN

Spokane, WA MSA

Spokane County, WA

Springfield, IL MSA

Menard County, IL

Sangamon County, IL

Springfield, MO MSA

Christian County, MO

Greene County, MO

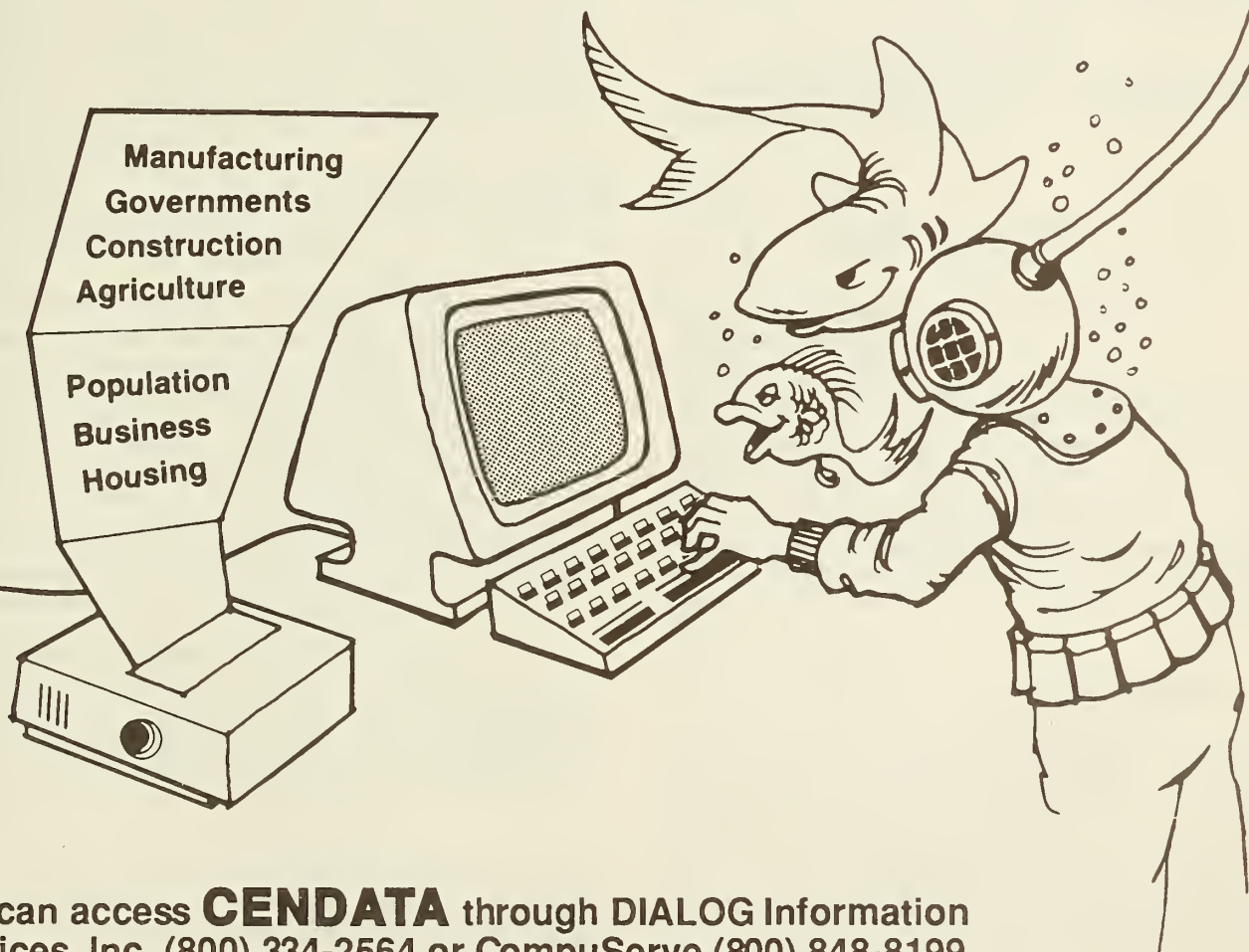
- Springfield, MA MSA**
Hampden County, MA (part)
Agawam town, MA
Chicopee city, MA
East Longmeadow town, MA
Hampden town, MA
Holyoke city, MA
Longmeadow town, MA
Ludlow town, MA
Monson town, MA
Montgomery town, MA
Palmer town, MA
Russell town, MA
Southwick town, MA
Springfield city, MA
Westfield city, MA
West Springfield town, MA
Wilbraham town, MA
Hampshire County, MA (part)
Belchertown town, MA
Easthampton town, MA
Granby town, MA
Huntington town, MA
Northampton city, MA
Southampton town, MA
South Hadley town, MA
- Stamford, CT PMSA—see New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA**
- State College, PA MSA**
Centre County, PA
- Steubenville-Weirton, OH-WV MSA**
Jefferson County, OH
Brooke County, WV
Hancock County, WV
- Stockton, CA MSA**
San Joaquin County, CA
- Syracuse, NY MSA**
Madison County, NY
Onondaga County, NY
Oswego County, NY
- Tacoma, WA PMSA—see Seattle-Tacoma, WA CMSA**
- Tallahassee, FL MSA**
Gadsden County, FL
Leon County, FL
- Tampa-St. Petersburg-Clearwater, FL MSA**
Hernando County, FL
Hillsborough County, FL
Pasco County, FL
Pinellas County, FL
- Terre Haute, IN MSA**
Clay County, IN
Vigo County, IN
- Texarkana, TX-Texarkana, AR MSA**
Miller County, AR
Bowie County, TX
- Toledo, OH MSA**
Fulton County, OH
Lucas County, OH
Wood County, OH
- Topeka, KS MSA**
Shawnee County, KS
- Trenton, NJ PMSA—see Philadelphia-Wilmington-Trenton, PA-NJ-DE-MD CMSA**
- Tucson, AZ MSA**
Pima County, AZ
- Tulsa, OK MSA**
Creek County, OK
Osage County, OK
Rogers County, OK
Tulsa County, OK
Wagoner County, OK
- Tuscaloosa, AL MSA**
Tuscaloosa County, AL
- Tyler, TX MSA**
Smith County, TX
- Utica-Rome, NY MSA**
Herkimer County, NY
Oneida County, NY
- Vallejo-Fairfield-Napa, CA PMSA—see San Francisco-Oakland-San Jose, CA CMSA**
- Vancouver, WA PMSA—see Portland-Vancouver, OR-WA CMSA**
- Victoria, TX MSA**
Victoria County, TX
- Vineland-Millville-Bridgeton, NJ PMSA—see Philadelphia-Wilmington-Trenton, PA-NJ-DE-MD CMSA**
- Visalia-Tulare-Porterville, CA MSA**
Tulare County, CA
- Waco, TX MSA**
McLennan County, TX
- Washington, DC-MD-VA MSA**
District of Columbia, DC
Calvert County, MD
Charles County, MD
Frederick County, MD
Montgomery County, MD
Prince George's County, MD
Arlington County, VA
Fairfax County, VA
Loudoun County, VA
Prince William County, VA
Stafford County, VA
Alexandria city, VA
Fairfax city, VA
Falls Church city, VA
Manassas city, VA
Manassas Park city, VA
- Waterbury, CT MSA**
Litchfield County, CT (part)
Bethlehem town, CT
Thomaston town, CT
Watertown town, CT
Woodbury town, CT
New Haven County, CT (part)
Middlebury town, CT
Naugatuck borough, CT
Prospect town, CT
Southbury town, CT
Waterbury city, CT
Wolcott town, CT
- Waterloo-Cedar Falls, IA MSA**
Black Hawk County, IA
Bremer County, IA
- Wausau, WI MSA**
Marathon County, WI
- West Palm Beach-Boca Raton-Delray Beach, FL MSA**
Palm Beach County, FL
- Wheeling, WV-OH MSA**
Belmont County, OH
Marshall County, WV
Ohio County, WV
- Wichita, KS MSA**
Butler County, KS
Harvey County, KS
Sedgwick County, KS
- Wichita Falls, TX MSA**
Wichita County, TX
- Williamsport, PA MSA**
Lycoming County, PA
- Wilmington, DE-NJ-MD PMSA—see Philadelphia-Wilmington-Trenton, PA-NJ-DE-MD CMSA**
- Wilmington, NC MSA**
New Hanover County, NC
- Worcester, MA MSA**
Worcester County, MA (part)
Auburn town, MA
Barre town, MA
Boylston town, MA
Brookfield town, MA
Charlton town, MA
Clinton town, MA
Douglas town, MA
Dudley town, MA
East Brookfield town, MA
Grafton town, MA
Holden town, MA
Leicester town, MA
Millbury town, MA
Northborough town, MA
Northbridge town, MA
North Brookfield town, MA
Oxford town, MA
Paxton town, MA
Princeton town, MA
Rutland town, MA
Shrewsbury town, MA
Spencer town, MA
Sterling town, MA
Sutton town, MA
Uxbridge town, MA
Webster town, MA
Westborough town, MA
West Boylston town, MA
Worcester city, MA
- Yakima, WA MSA**
Yakima County, WA
- York, PA MSA**
Adams County, PA
York County, PA
- Youngstown-Warren, OH MSA**
Mahoning County, OH
Trumbull County, OH
- Yuba City, CA MSA**
Sutter County, CA
Yuba County, CA

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PUBLICATION PROGRAM

1987 CENSUS OF MANUFACTURES

Publications of the 1987 Census of Manufactures, containing preliminary and final data on manufacturing establishments in the United States, are described below. Publications order forms for the specific reports may be obtained from any Department of Commerce district office or from Data User Services Division, Customer Services (Publications), Bureau of the Census, Washington, DC 20233.

Preliminary Reports

Industry series—83 reports (MC87-I-20A(P) to -39D(P))

Preliminary industry data are issued in 83 separate reports covering 459 industries. Preliminary summary data for the U.S. and States are released in one report.

Final Reports

Industry series—83 reports (MC87-1-20A to -39D)

Each of the 83 reports provides information for a group of related industries ("dairy products" includes industries for butter, cheese, milk, etc.). Final figures for the United States are shown for each of the 459 manufacturing industries on quantity and value of products shipped and materials consumed, cost of fuels and electric energy, capital expenditures, assets, rents, inventories, employment, payroll, payroll supplements, hours worked, value added by manufacture, number of establishments, and number of companies. Comparative statistics for earlier years are provided where available.

For each industry, data on value of shipments, value added by manufacture, capital expenditures, employment, and payroll are shown by employment-size class of establishment, State, and degree of primary product specialization.

Geographic area series—51 reports (MC87-A-1 to -51)

A separate report is being published for each State and the District of Columbia. Each report presents data for industry groups and industries on value of shipments, cost of materials, value added by manufacture, employment, payroll, hours worked, new capital expenditures, and number of manufacturing establishments for the State, MSA's, counties, and selected places. Comparative statistics for earlier census years are shown for the State and large MSA's. Manufacturing totals are presented for each county and for places with significant manufacturing activity. Detailed statistics (including inventories, assets, rents, and energy costs) are presented only in statewide totals.

Subject series—7 reports (MC87-S-1 to -7)

Each of the seven reports contains detailed statistics for an individual subject, such as concentration ratios in manufacturing, type of organization, textile machinery in place, distribution of sales by class of customer, manufacturers' shipments to the Federal Government, and a general national-level summary.

Reference series—1 report (MC87-R-1)

The Numerical List of Manufactured and Mineral Products includes a description of the principal products and services published in the 1987 Censuses of Manufactures and Mineral Industries.

Location of Manufacturing Plants—1 report (MC87-LM)

This report includes data for number of establishments by four-digit SIC industry and by employment-size class for counties, incorporated places of 2,500 inhabitants or more, and zip codes for each State. (This report is available only on magnetic tape and CD-ROM.)

Analytical Reports—3 reports (AR87-1 to -3)

Exports From Manufacturing Establishments (AR87-1)

This report presents data on exports by two- and three-digit SIC industry groups for the United States and States. Information is presented on value of direct report shipments and estimates of the employment required to manufacture these products. Included are estimates of employment in manufacturing and nonmanufacturing establishments that supply parts, materials, and services for production of manufactured exports.

Selected Characteristics of Manufacturing Establishments That Export (AR87-2)

This report presents data on the number of manufacturing companies and establishments that export by major group, State, employment size, and ratios of exports to shipments.

Indexes of Production (AR87-3)

The indexes presented in this report are designed to measure the change in physical output of each manufacturing and mineral industry between 1982 and 1987.

MICROFICHE

Every final published report in the 1987 Census of Manufactures will be available on microfiche.

PUBLIC-USE COMPUTER TAPES AND COMPACT DISCS

Data from the final industry series, geographic area series, and the Location of Manufacturing Plants report will be available on public-use computer tapes and compact discs—read only memory (CD-ROM). These tapes will provide the same information found in the final reports. Computerized data products are available for users who wish to summarize, rearrange, or process large amounts of data. These products, with corresponding technical documentation, are sold by Data User Services Division, Customer Services (Tapes), Bureau of the Census, Washington, DC 20233.

OTHER ECONOMIC CENSUSES REPORTS

Data on retail trade, wholesale trade, service industries, construction industries, mineral industries, transportation, enterprise statistics, minority-owned businesses, and women-owned businesses also are available from the 1987 Economic Censuses. A separate series of reports covers the censuses of outlying areas—Puerto Rico, Virgin Islands of the United States, Guam, and the Northern Mariana Islands. Separate announcements describing these reports are available free of charge from Data User Services Division, Customer Services (Publications), Bureau of the Census, Washington, DC 20233.

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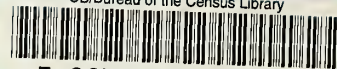
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